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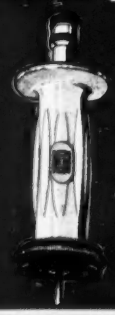

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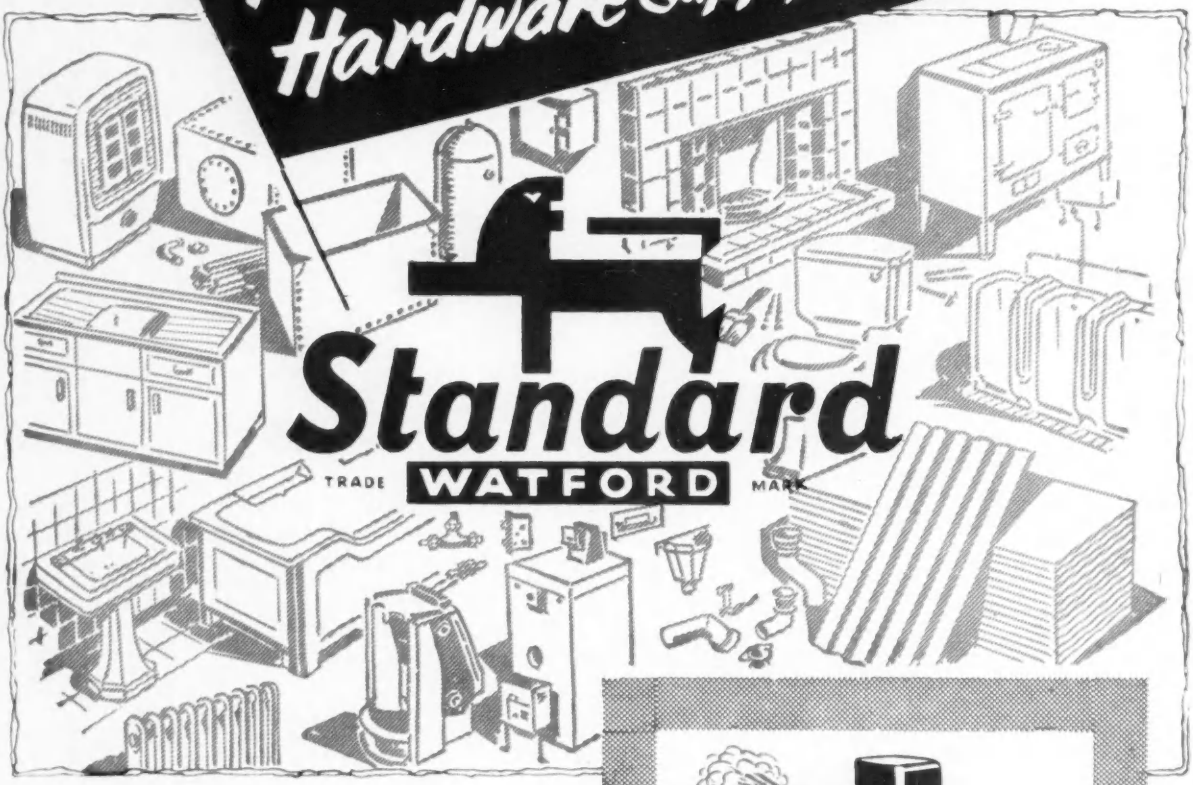

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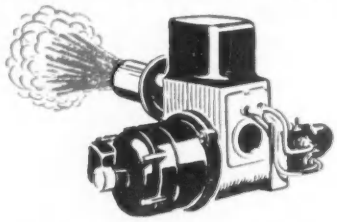

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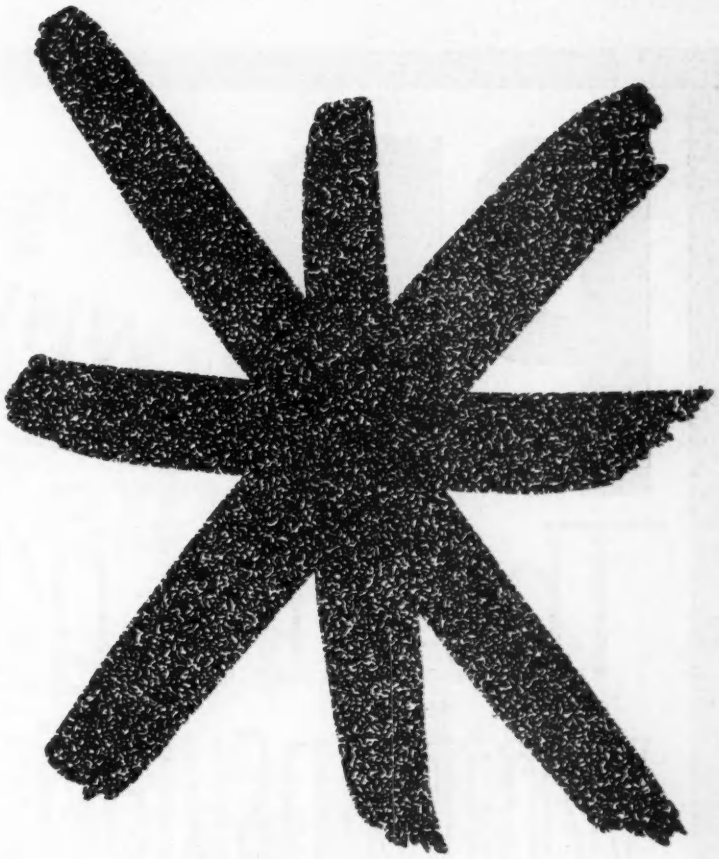

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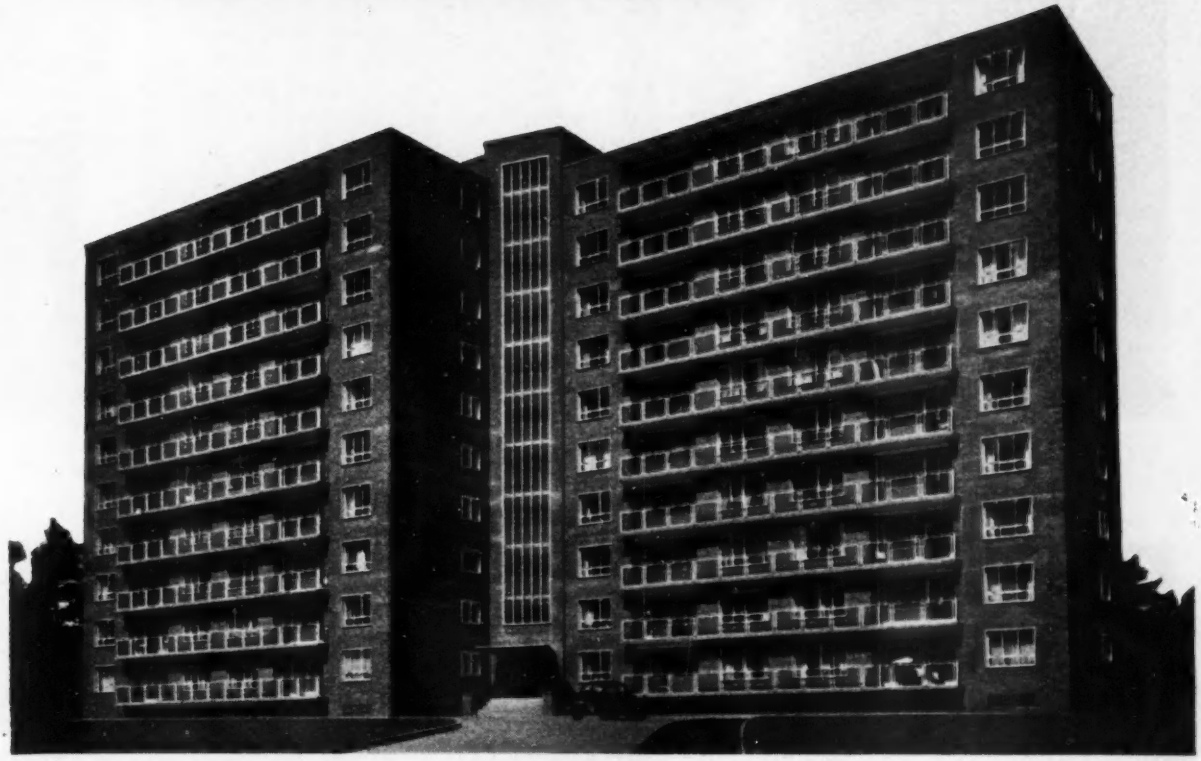

Architect: S. P. Youldon, M.C., F.R.I.C.S., M.I.Mun.E., L.R.I.B.A. Chartered Municipal Engineer and Registered Architect.

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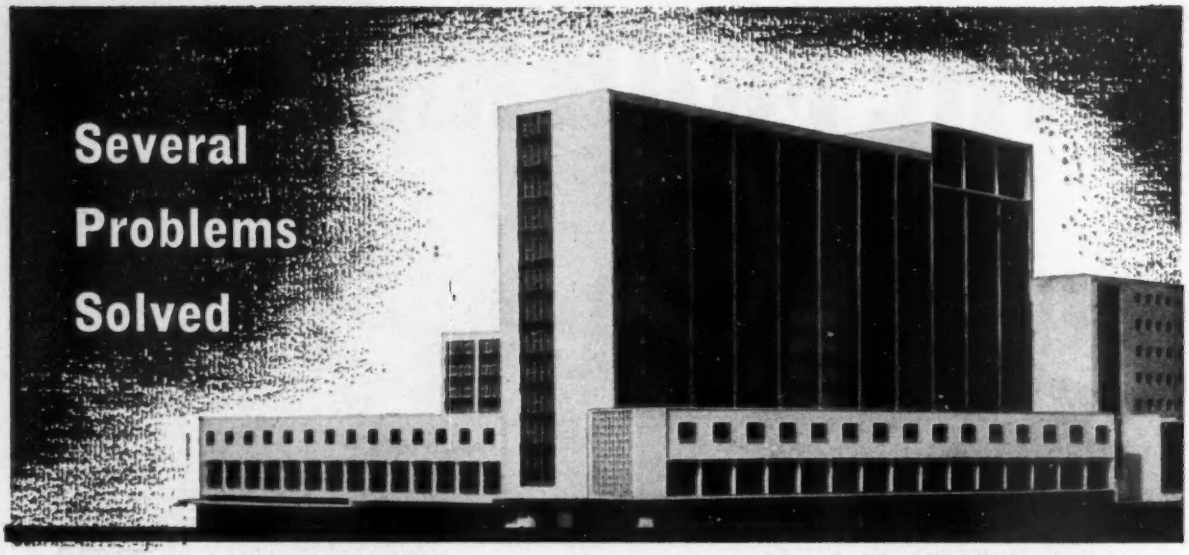


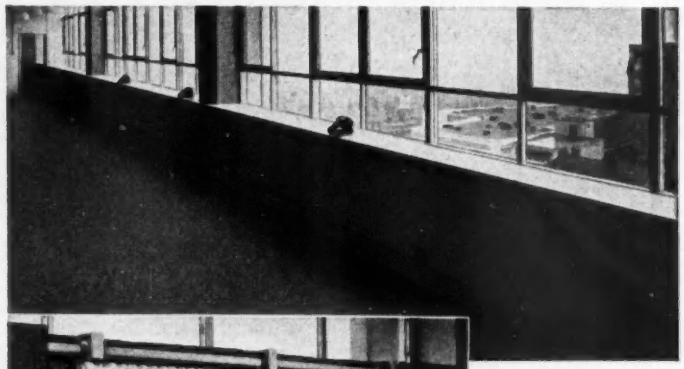
The Big Top, New Street, Birmingham.
Architects: Messrs. Cotton, Ballard & Blow.
Heating Engineers: Couzens & Akers Ltd.

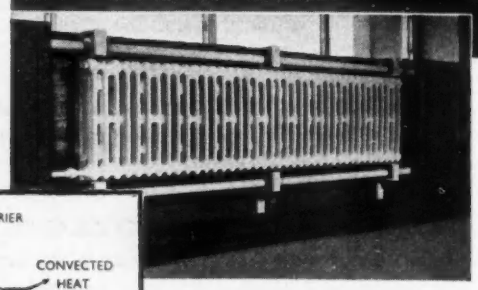
in Birmingham's Biggest Building

The heating and service trunking system devised for The Big Top is of special interest to all concerned with the design, construction and equipment of new buildings.

It provides both radiant and convected heating at low fuel cost. All telephone, lighting and power cables are completely concealed yet instantly accessible. Installation can keep pace with construction, thereby speeding up completion of curtain wall types of building.

The metal panelling and sill units for this important contract are typical of the work developed and produced by Harveys to architects' individual requirements.





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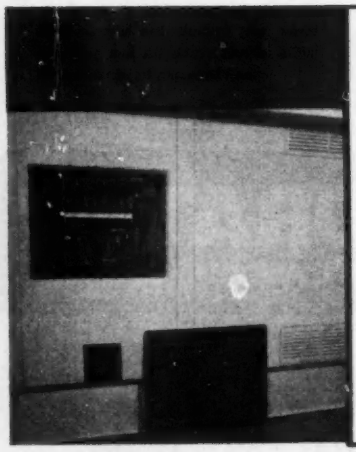

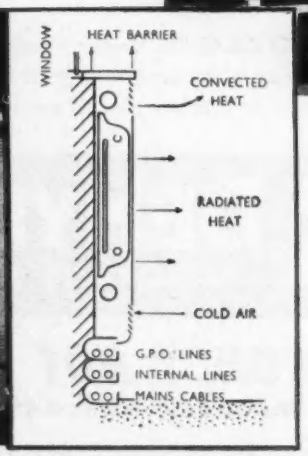

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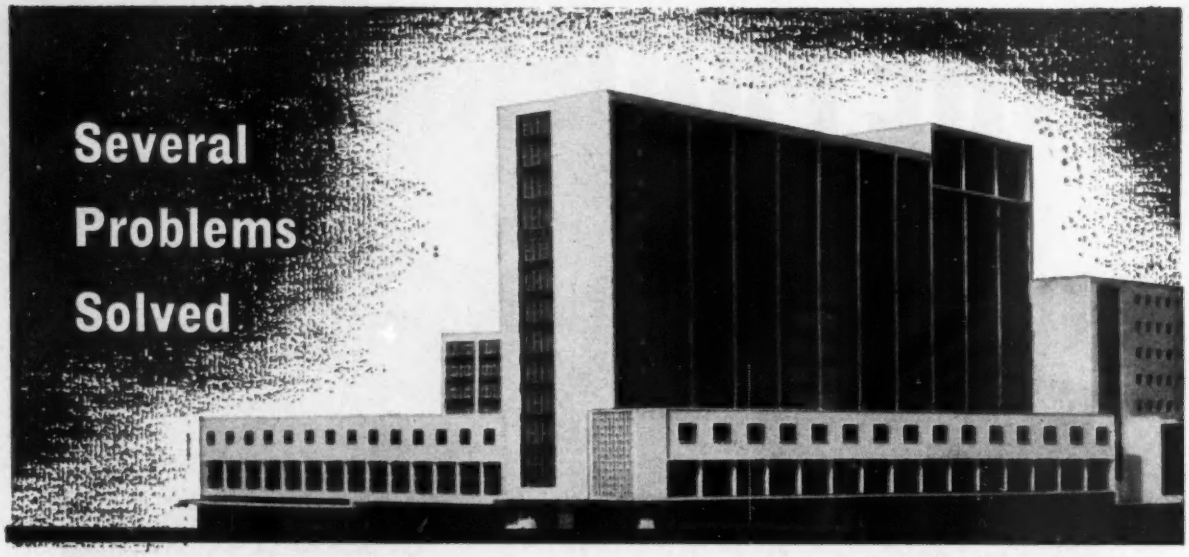

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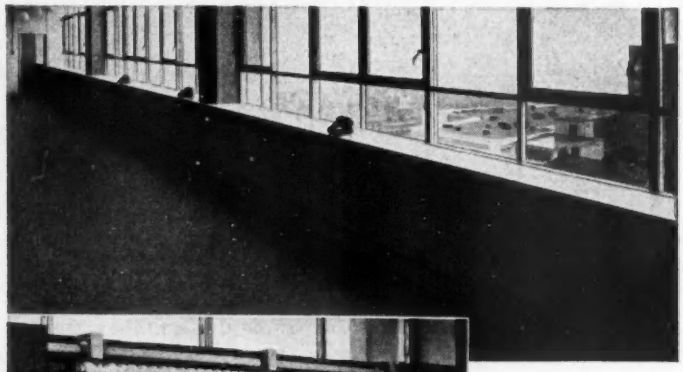

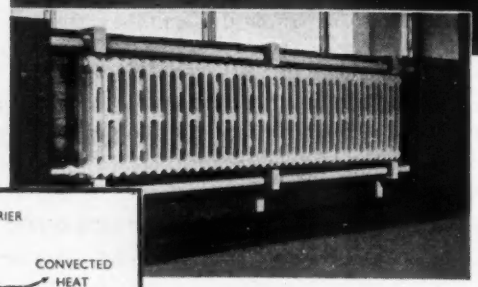

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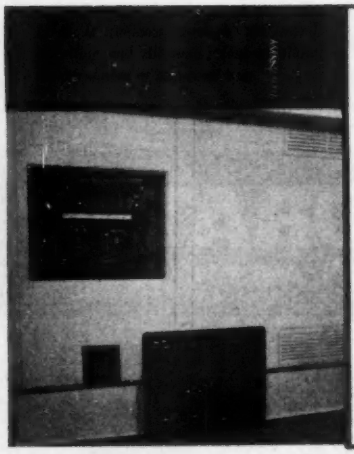

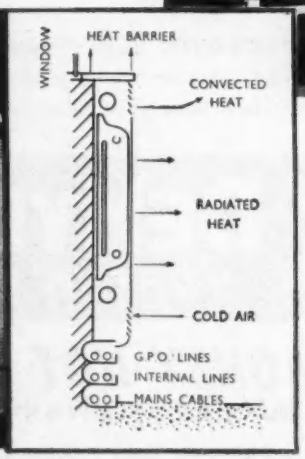

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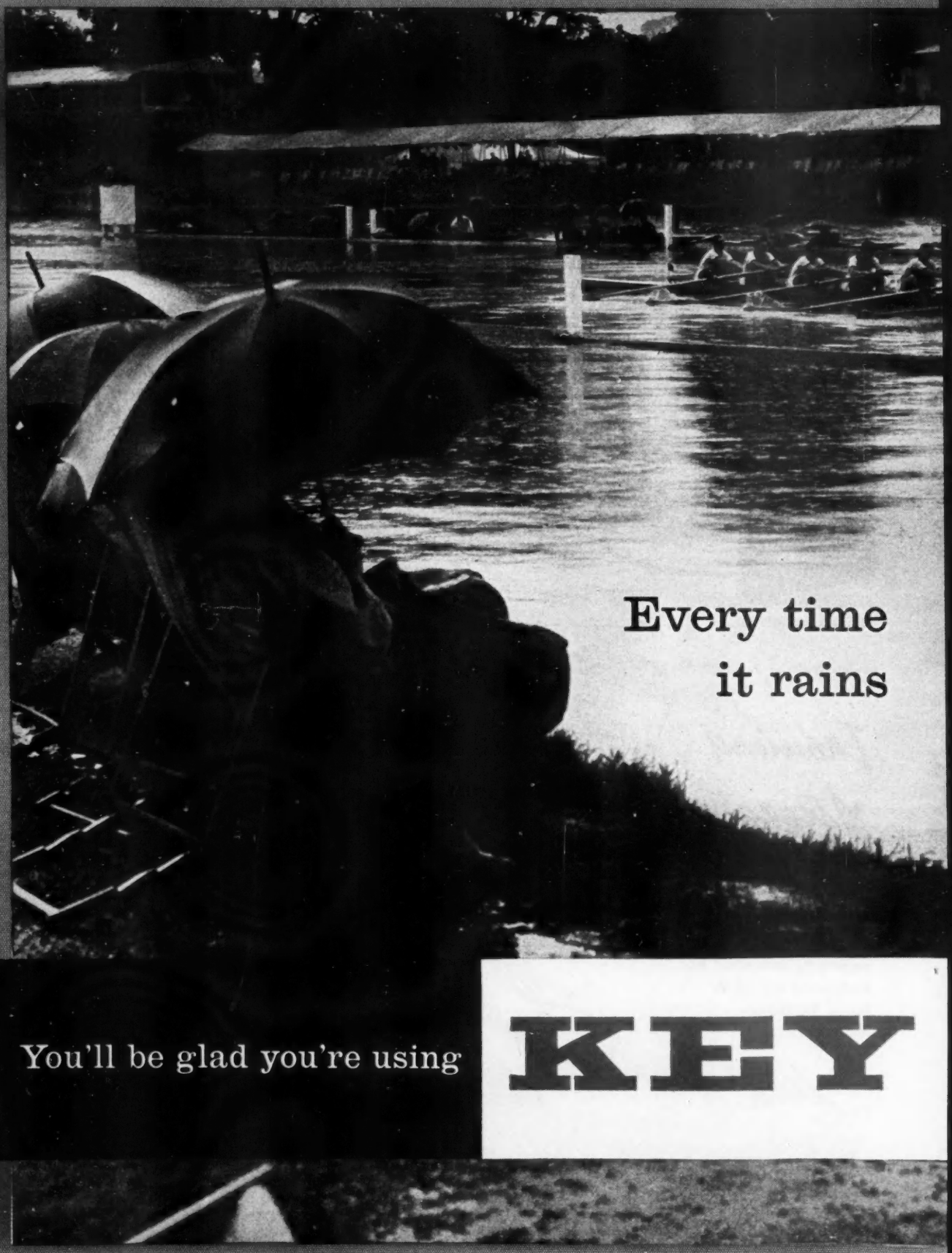
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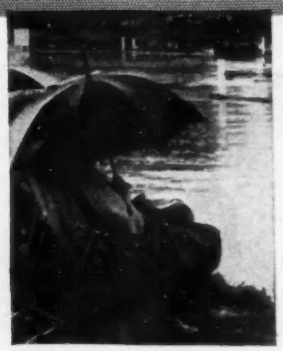

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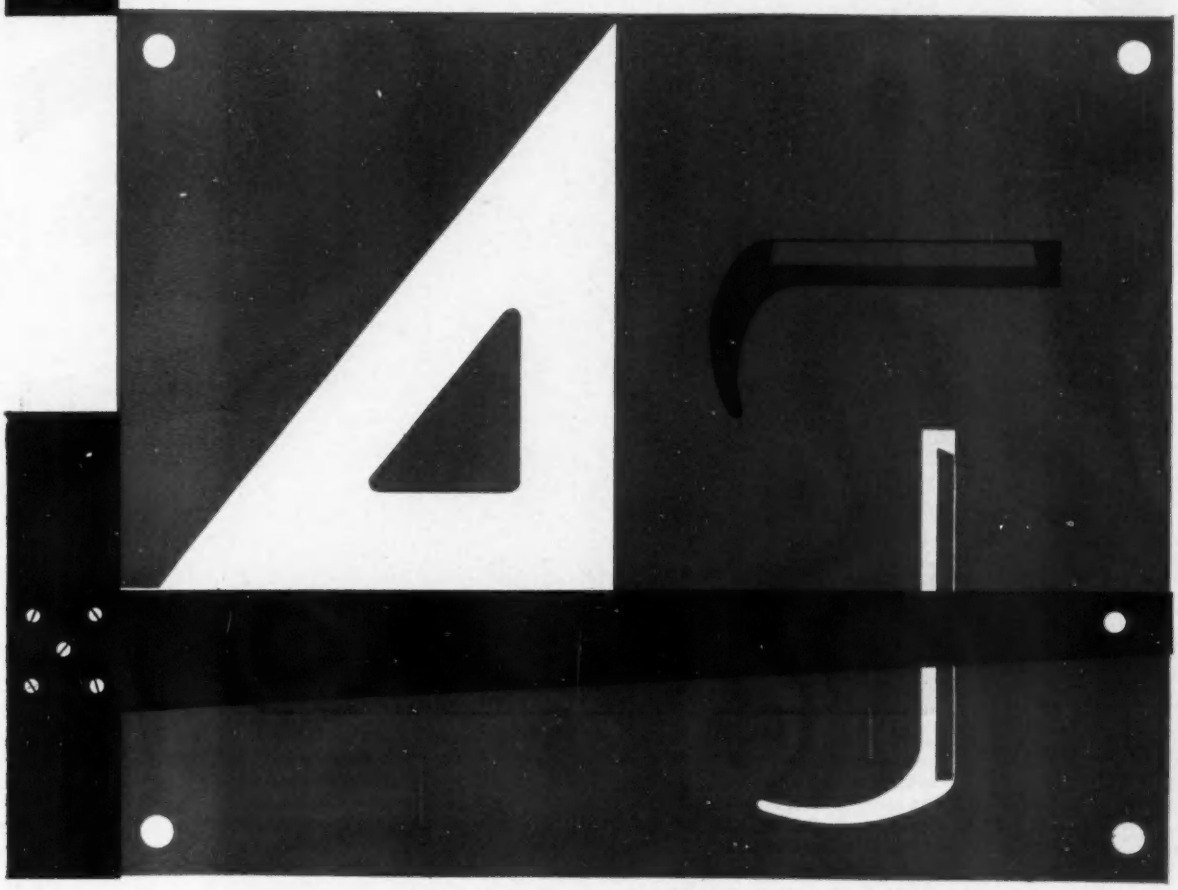

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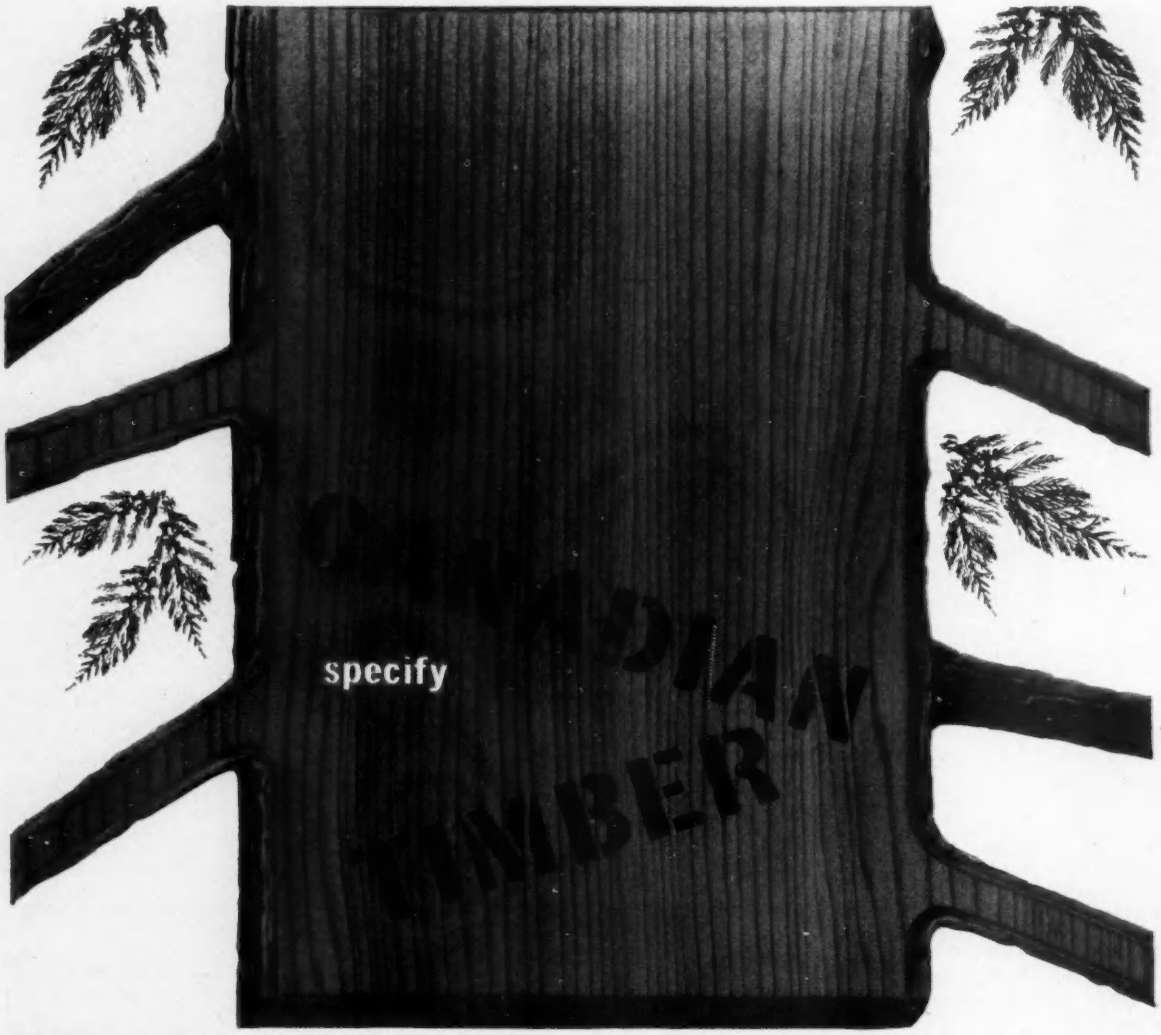

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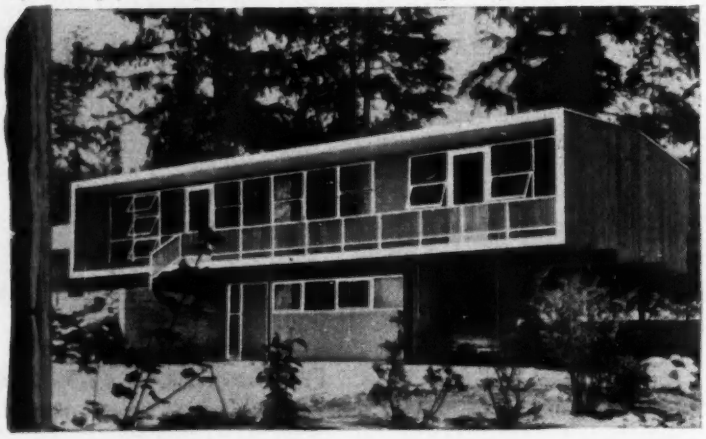

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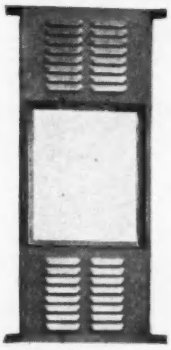
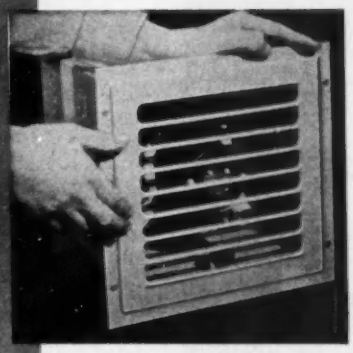




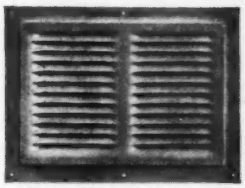
'PERMAVENT' LARDER LIGHTS AND VENTI-LIGHTS

Fully weathered permanent ventilation and daylight. Built-in fly proof gauze. Multi-louvred panels. Suitable for pantries, sculleries, garages, stores, etc. Size range: Larder Lights 6¾" x 18" to 18" x 30"; Venti-lights 9" x 18" to 18" x 30".

'MECHAVENT 75' EXTRACTOR FANS

A complete 7½" wall-mounted fan unit, with safety grille, closing louvres and totally enclosed motor. Flush-fitting into 9" x 9" opening. Ideal for domestic kitchens, stores and drying cupboards.

'MAXAIRE' MULTI-LOUVRED PANELS



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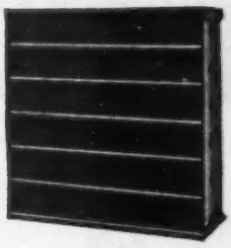
Suitable for permanent or controllable ventilation. Available in a comprehensive range of types and sizes for either external or internal fitting.



(above) Large free area embossed bar front movable louvre ventilator, type HML/B.

(right) Weatherlip heavy external fixed louvre ventilator, type 'L'.

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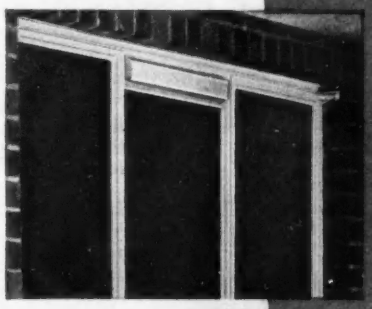
Permanent or controllable ventilation with locked window security. Unobtrusive, lightweight and fully weathered. Minimum daylight restriction. For metal or timber windows.



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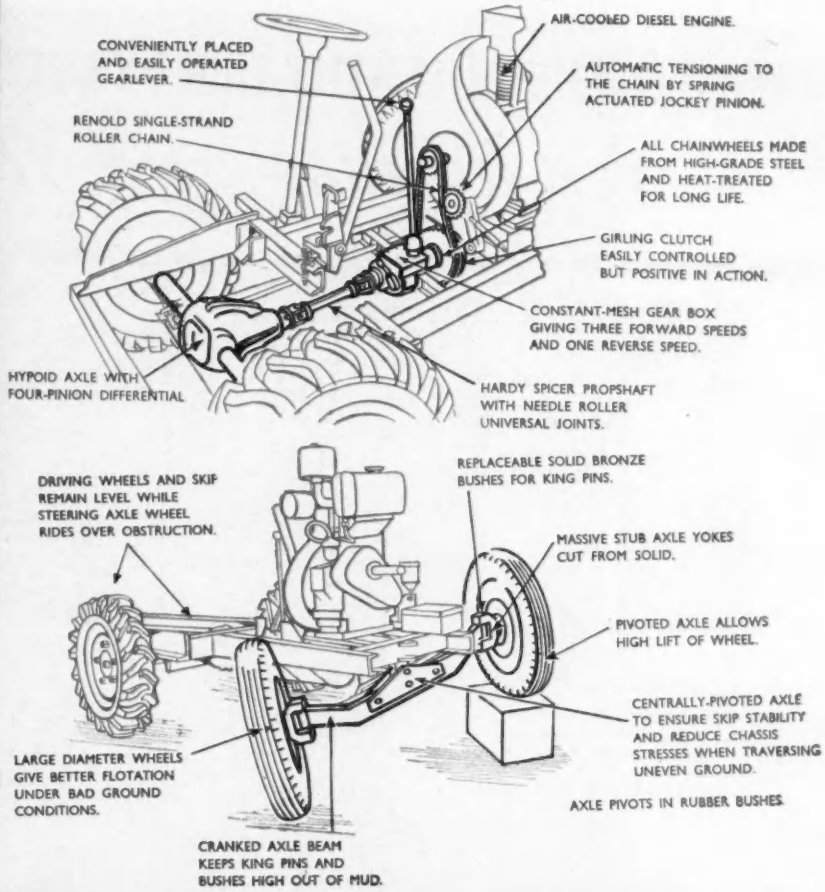

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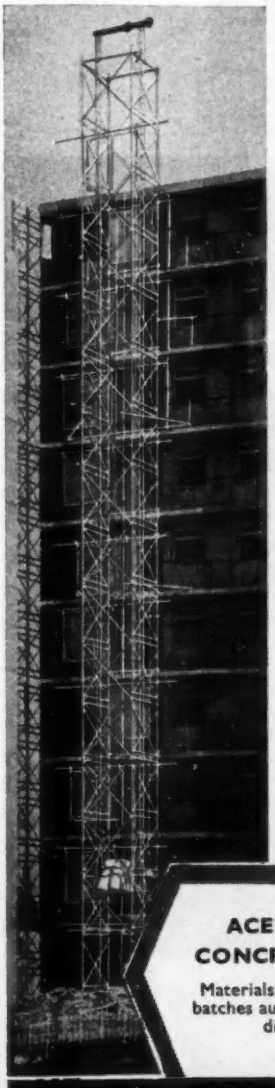

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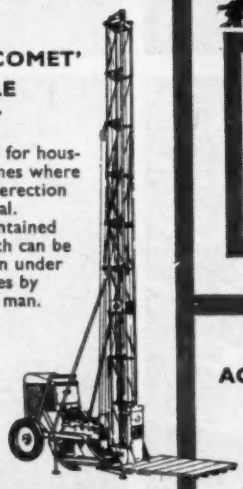

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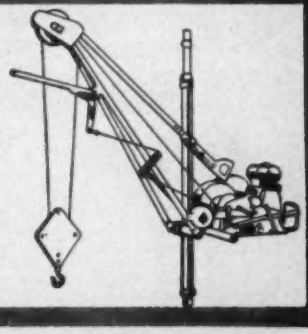

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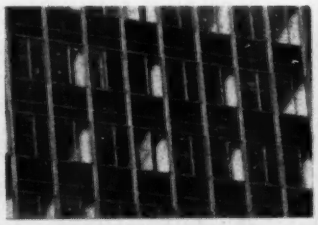

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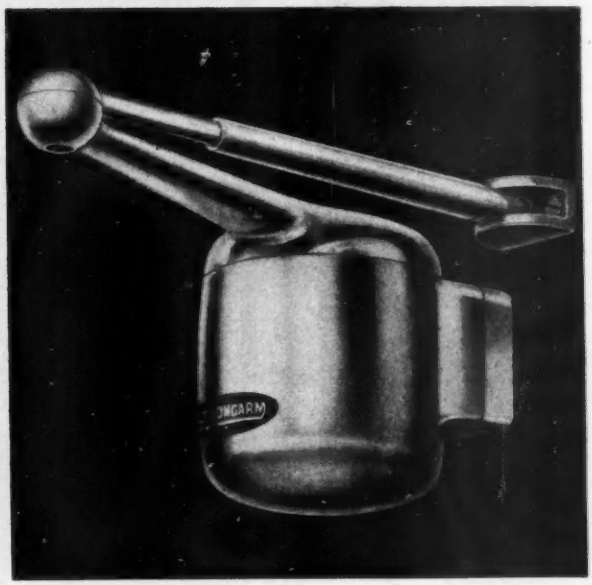

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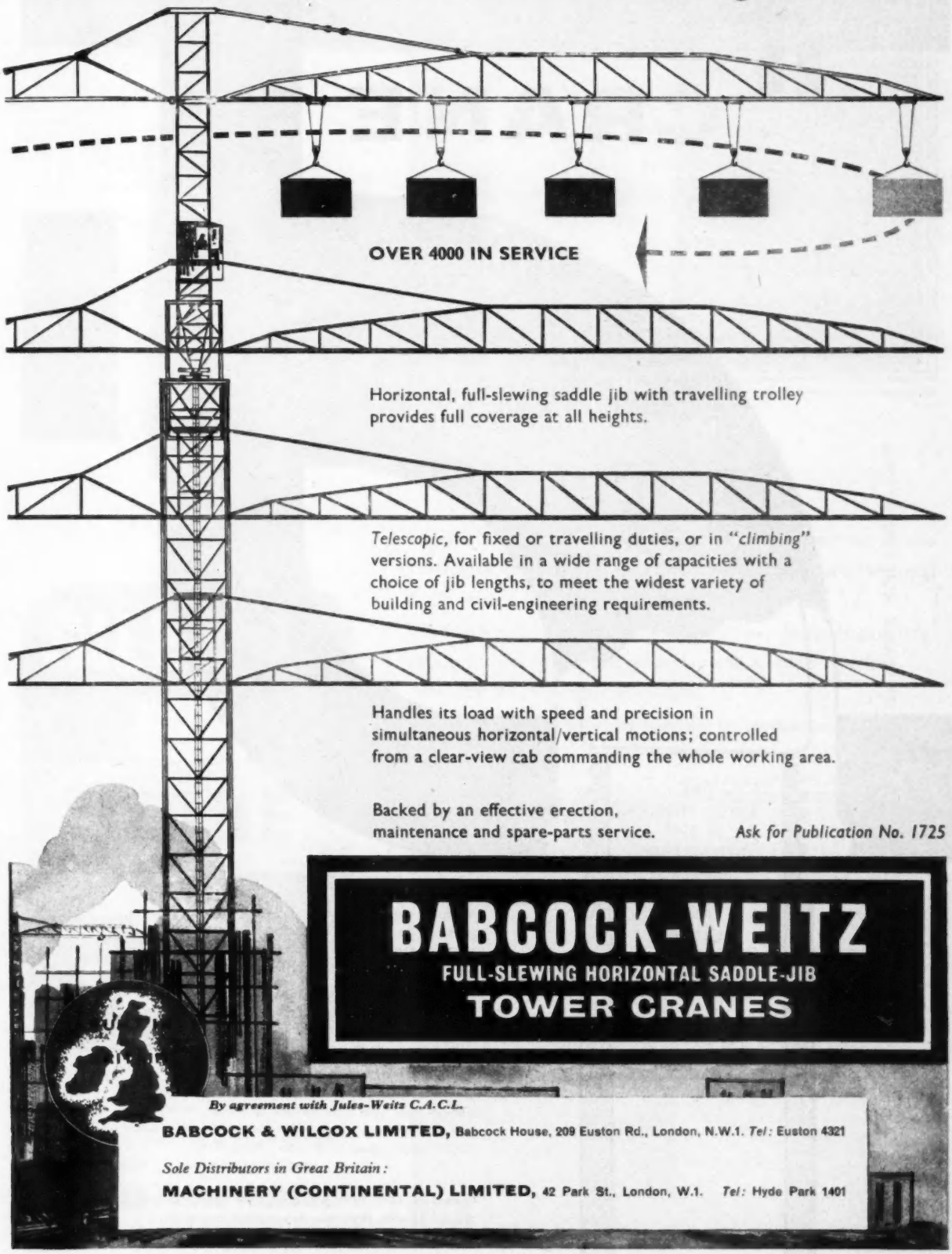

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MALLEABLE IRON PIPE FITTINGS

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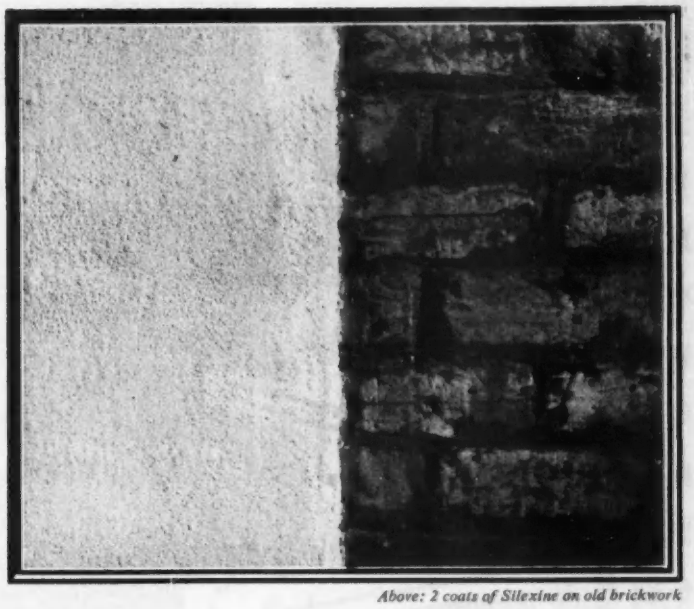
A COAT OF STONE . . .



Above: 2 coats of Silexine on old brickwork

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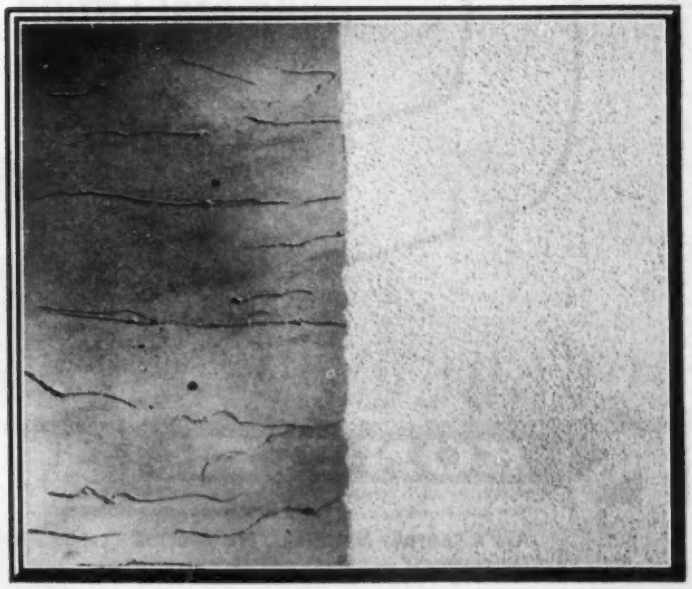

Full details, shade card and applied sample on request to the sole manufacturers

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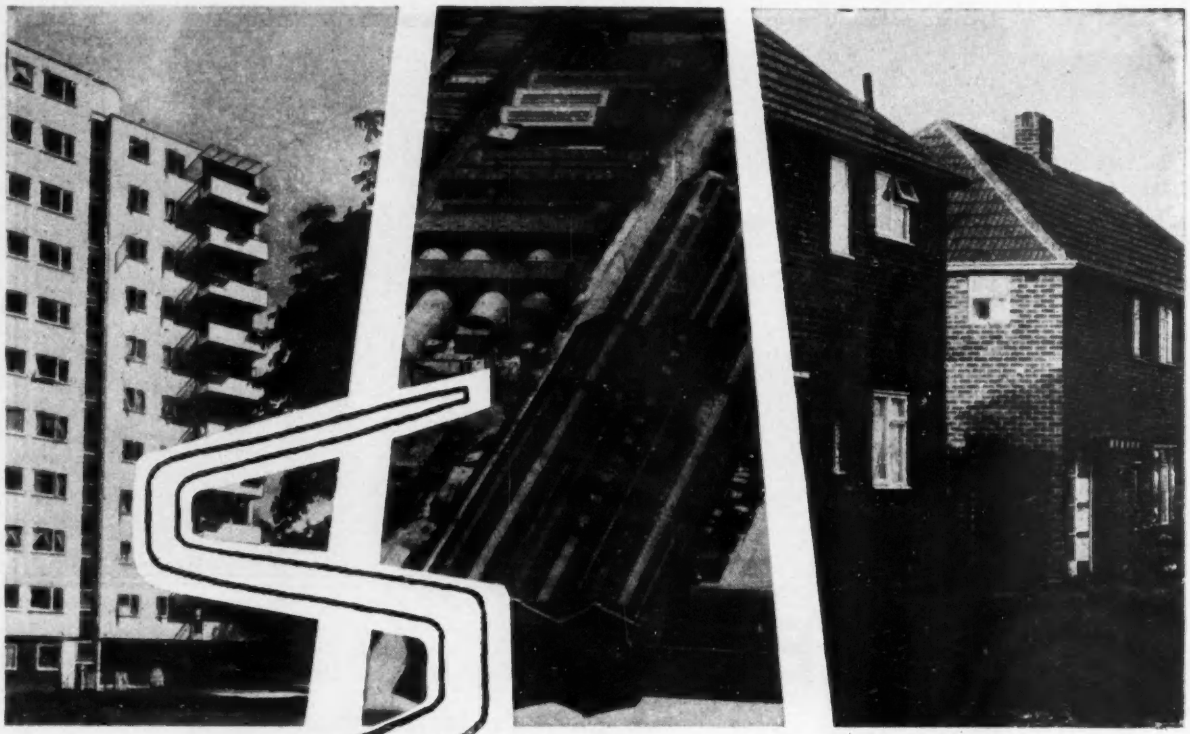

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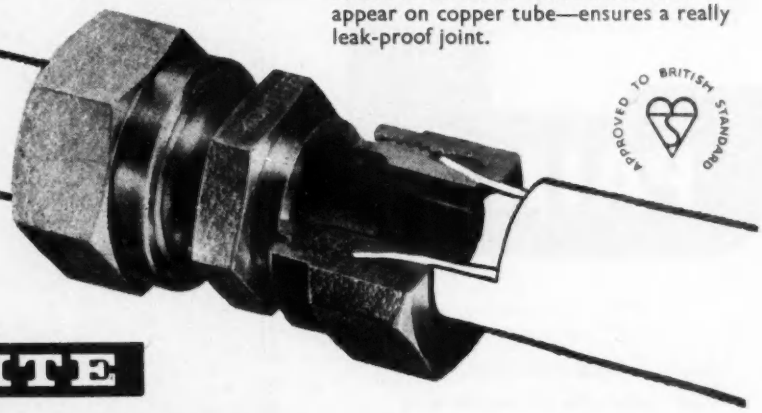

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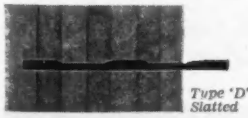
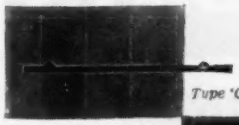


Type 'D' Slatted

Type 'E' Close Slatted



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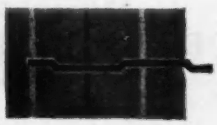

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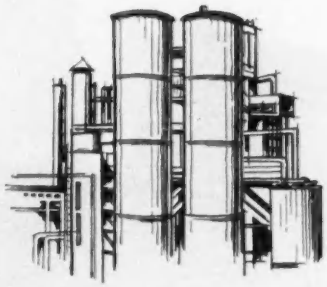

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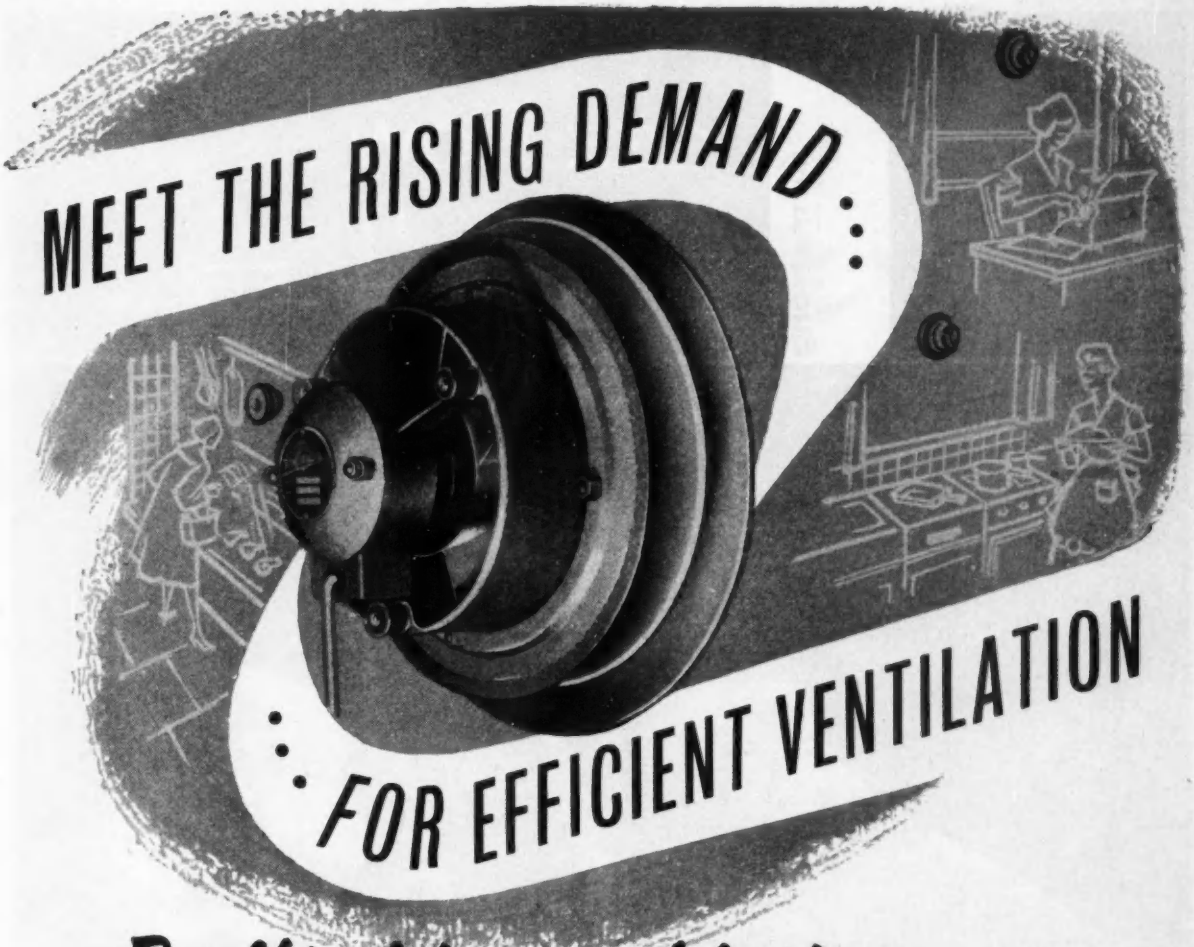

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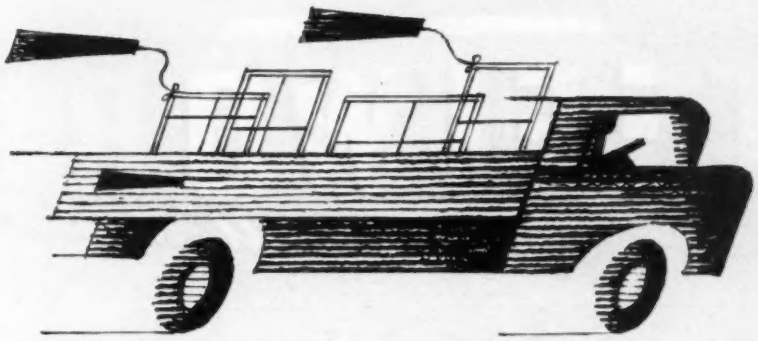

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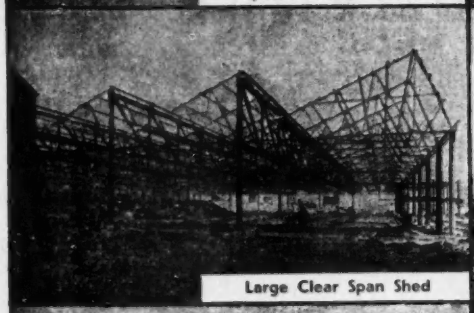
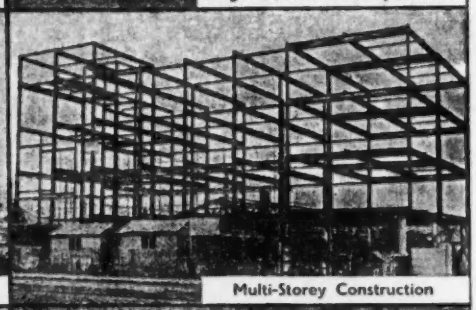

Large Clear Span Shed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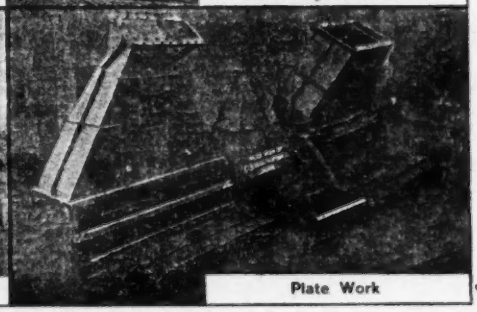
Long Span Girder Roof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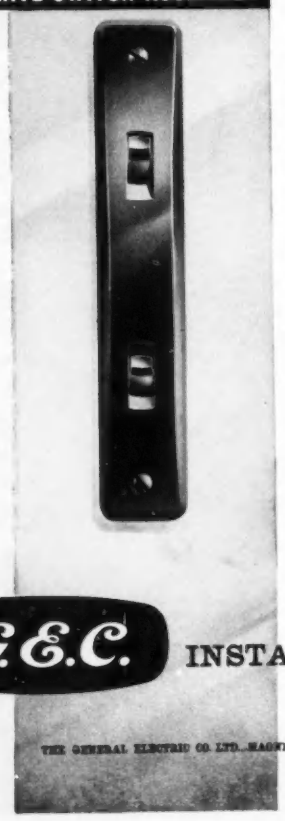

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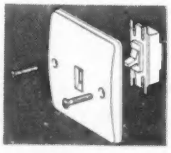

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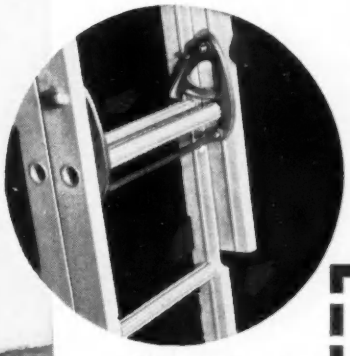

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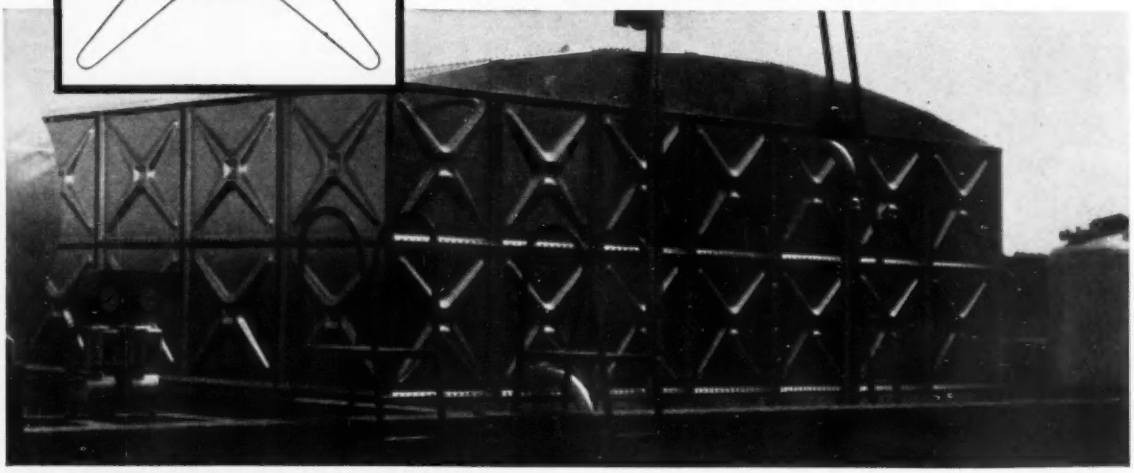

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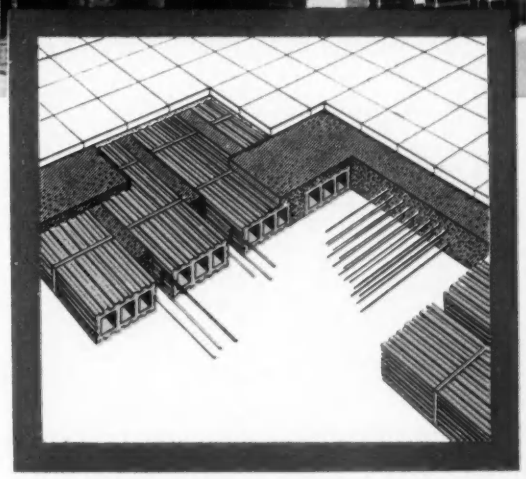

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FULL INFORMATION, SEE BARBOUR INDEX

Top: Rolador Shutters installed for Messrs. Maple & Co. Ltd., Tottenham Court Road, London. Architects: Dalgliesh & Pullen, FF.R.I.B.A.

Left: Shutter Doors installed for South Devon Water Board, South Brent. Architects: Seagrim & Read, LL.R.I.B.A.

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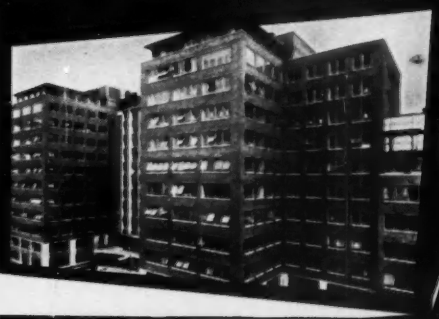

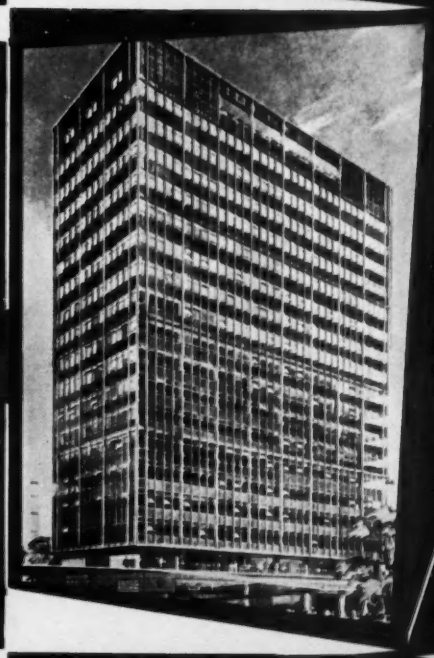

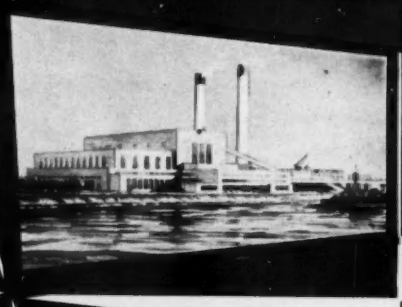

- National Ships, Hydrodynamics Laboratory, Feltham.
  Architects: Ministry of Works Architects Dept.
  Contractors: Sir Robert McAlpine & Sons Ltd.
- Taylor Woodrow Group Overseas Companies & Myton Ltd., Western Avenue.
  Architects: T.P. Bennett & Son, F/F.R.I.B.A.
  Contractors: Taylor Woodrow Construction Ltd.
- Garrard House, Gresham Street, E.C.2.
  Architect: Major A. S. Ash, F.R.I.B.A.
  Contractors: Sir Robert McAlpine & Sons Ltd.
- Tilbury Generating Station.
  Architects: Sir Alexander Gibb & Partners.
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TOP TO BOTTOM

- Nightingale County Secondary School, Wanstead.
  Architects: Tooley & Foster, F/A.R.I.B.A. in collaboration with H. Connolly, C.B.E., F.R.I.B.A., County Architect.
  Contractors: J. & J. Dean Ltd.
- Knightsbridge Development for Malkay Investments Ltd.
  Architects: Guy Morgan & Partners, F.R.I.B.A.
  Contractors: Humphreys Ltd.
- Moor House, London Wall.
  Architects: Lewis Solomon, Kaye & Partners, F/A.R.I.B.A.
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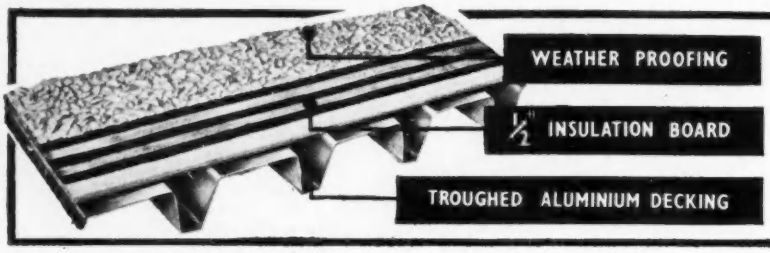

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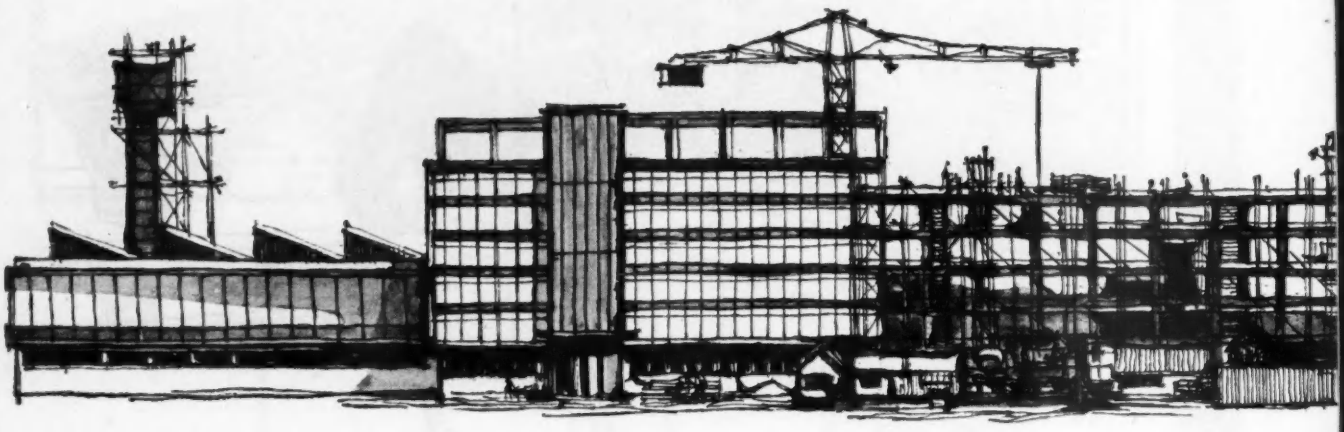

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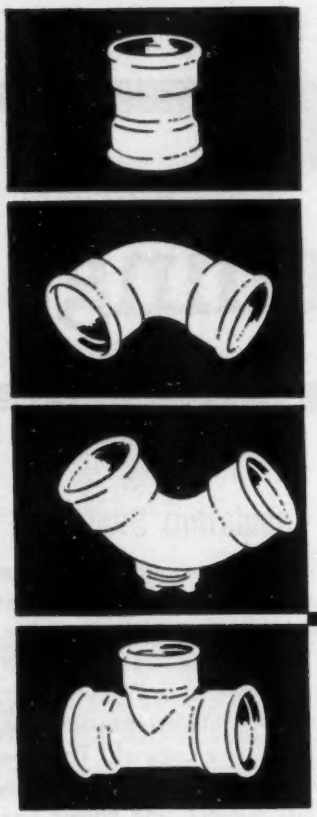

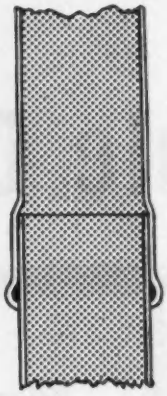

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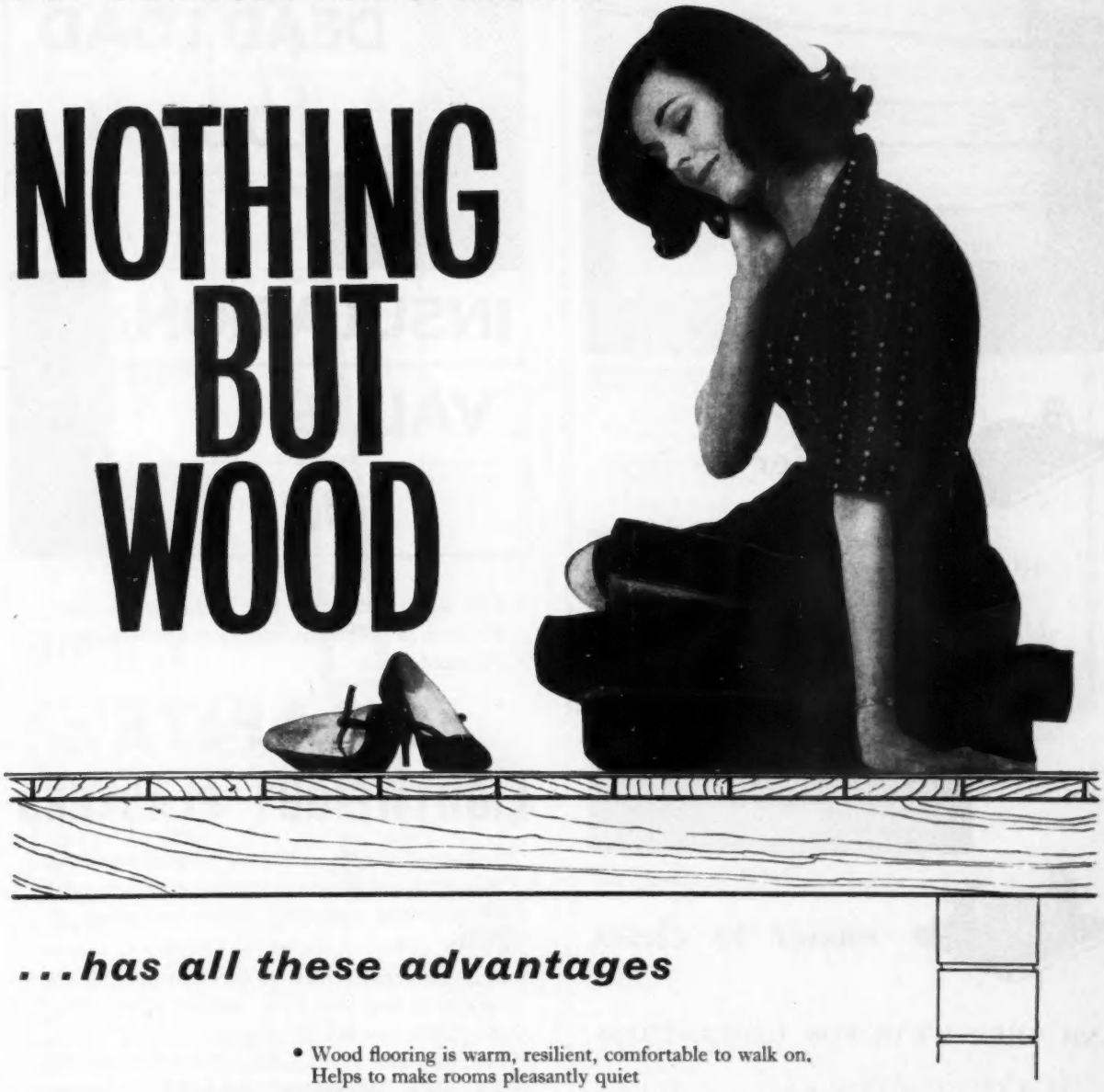

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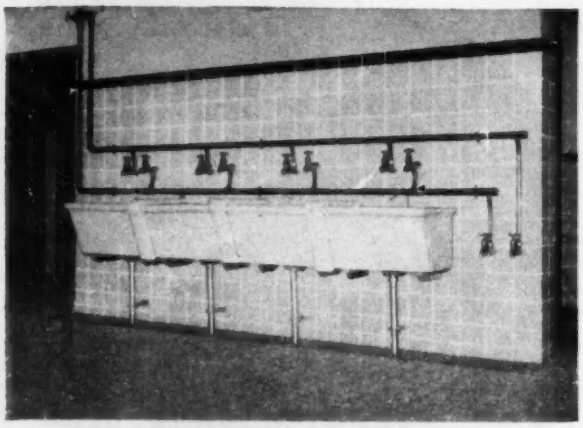

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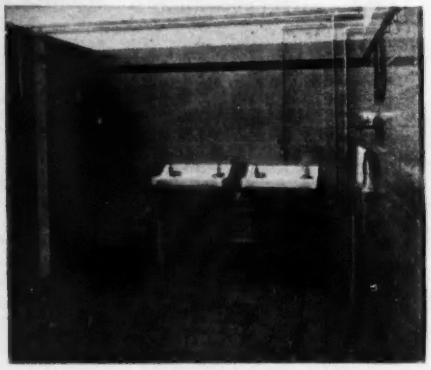

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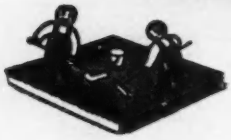

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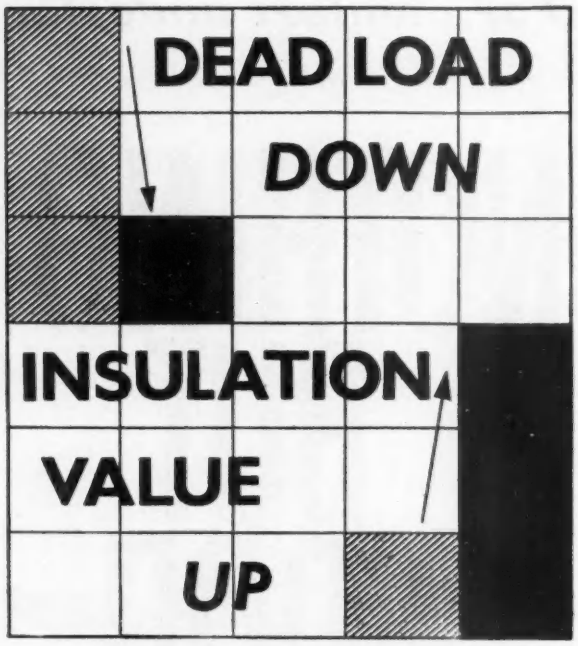

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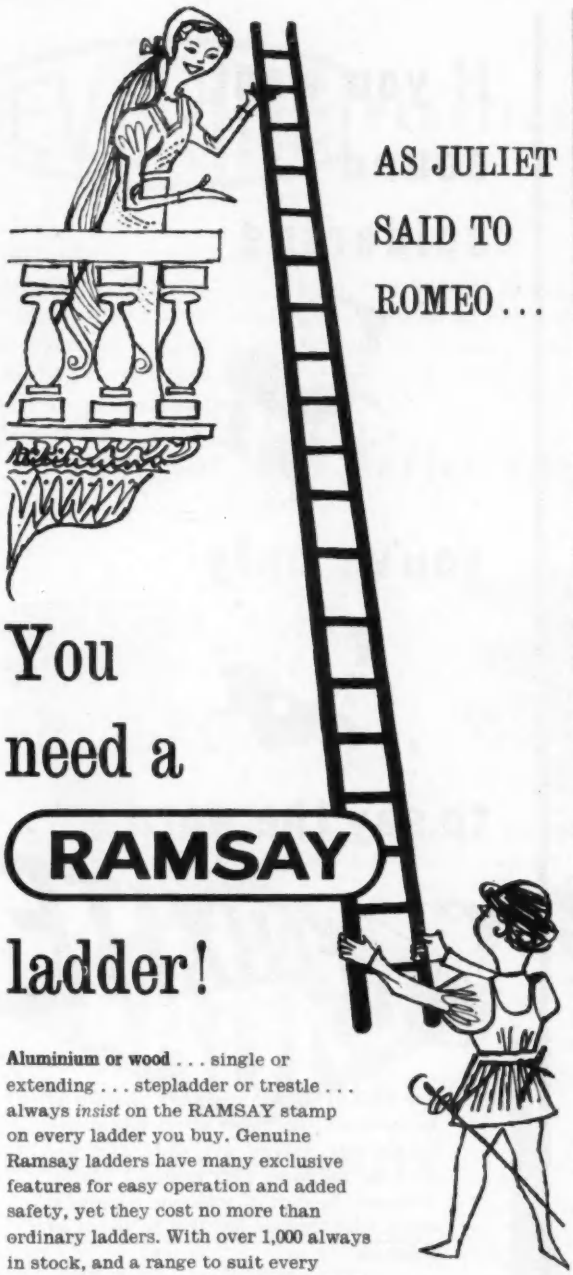

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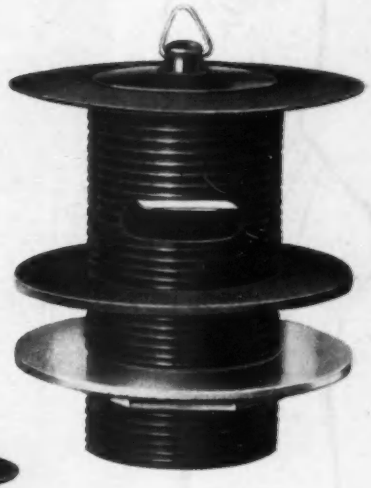

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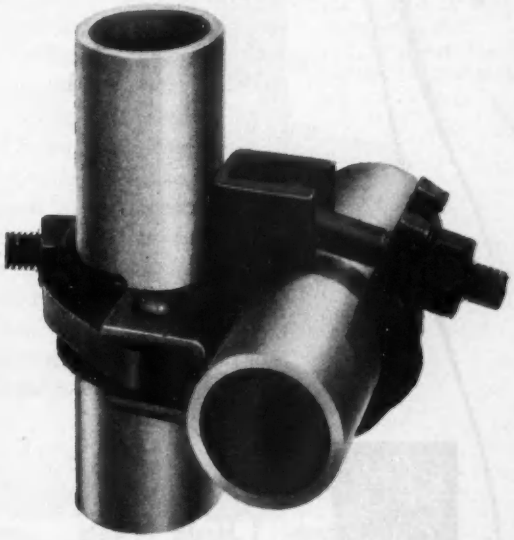

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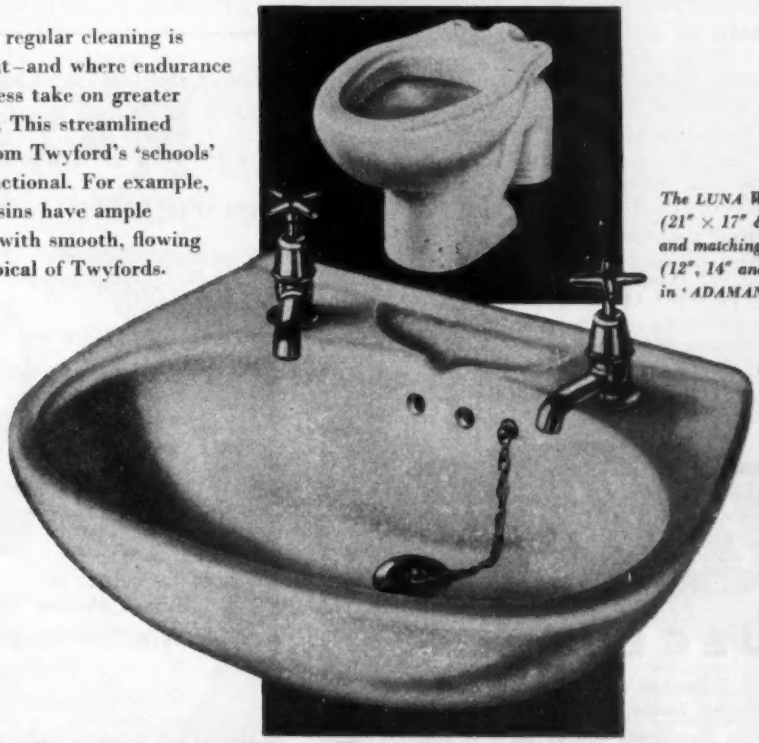

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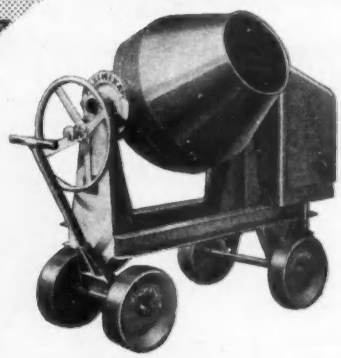

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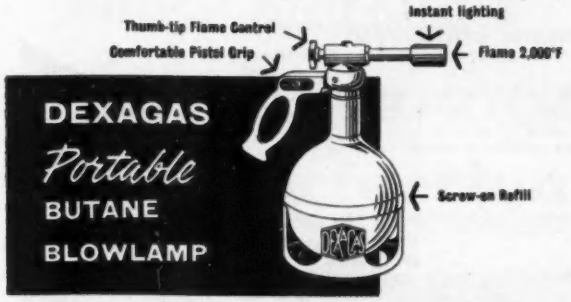

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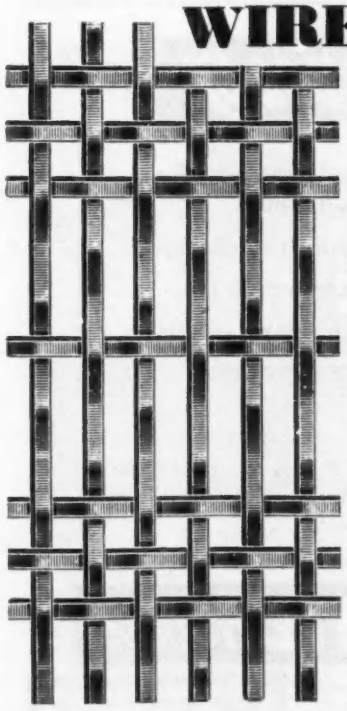

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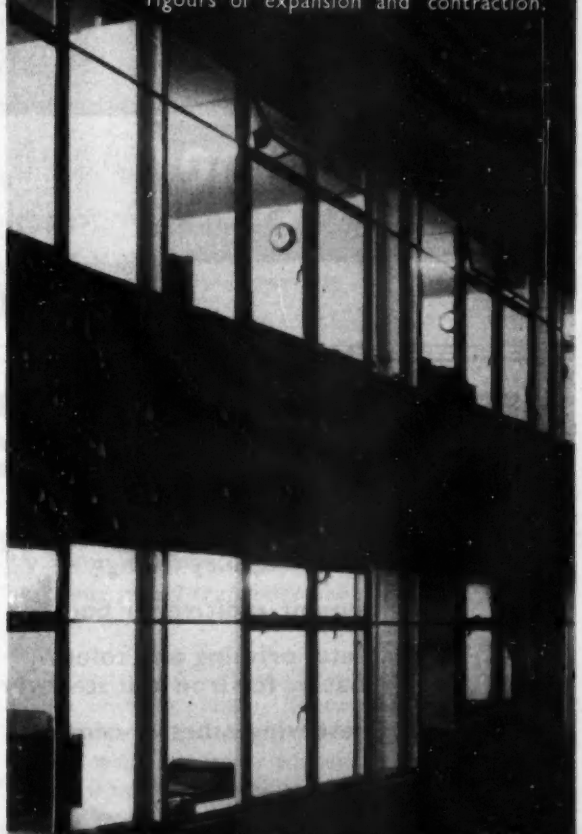

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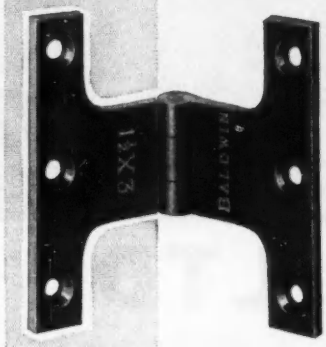

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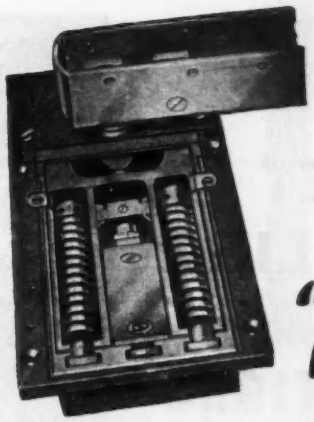

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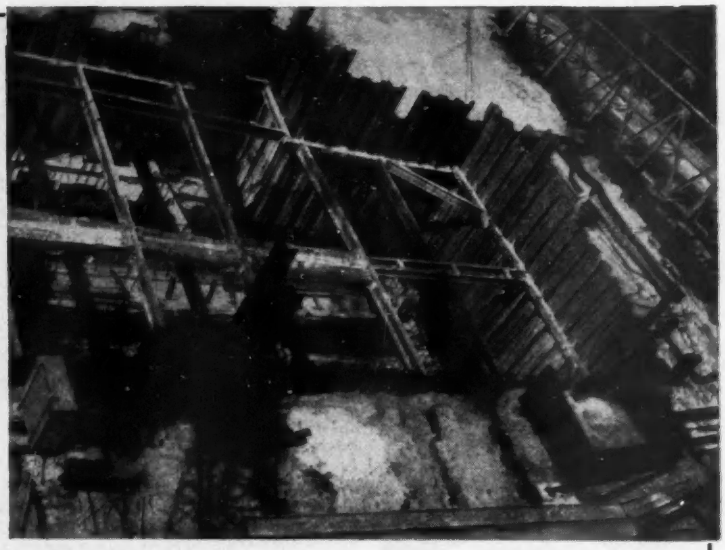

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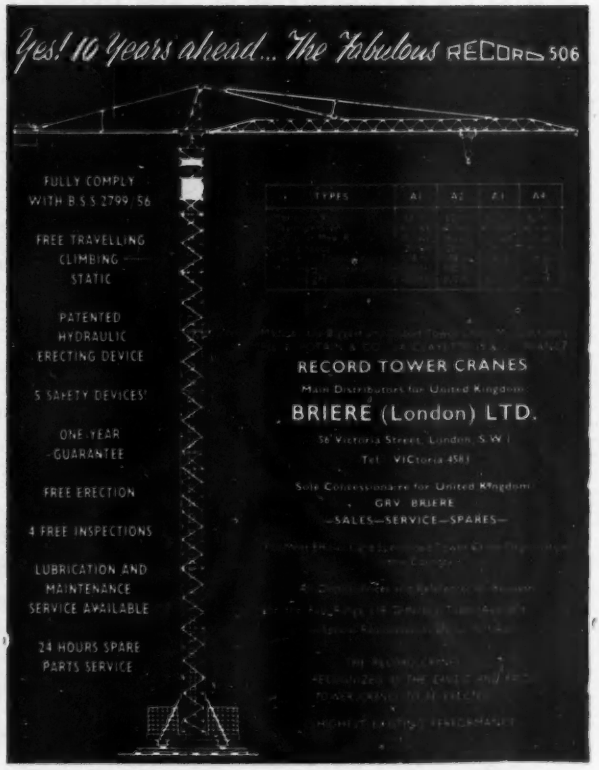

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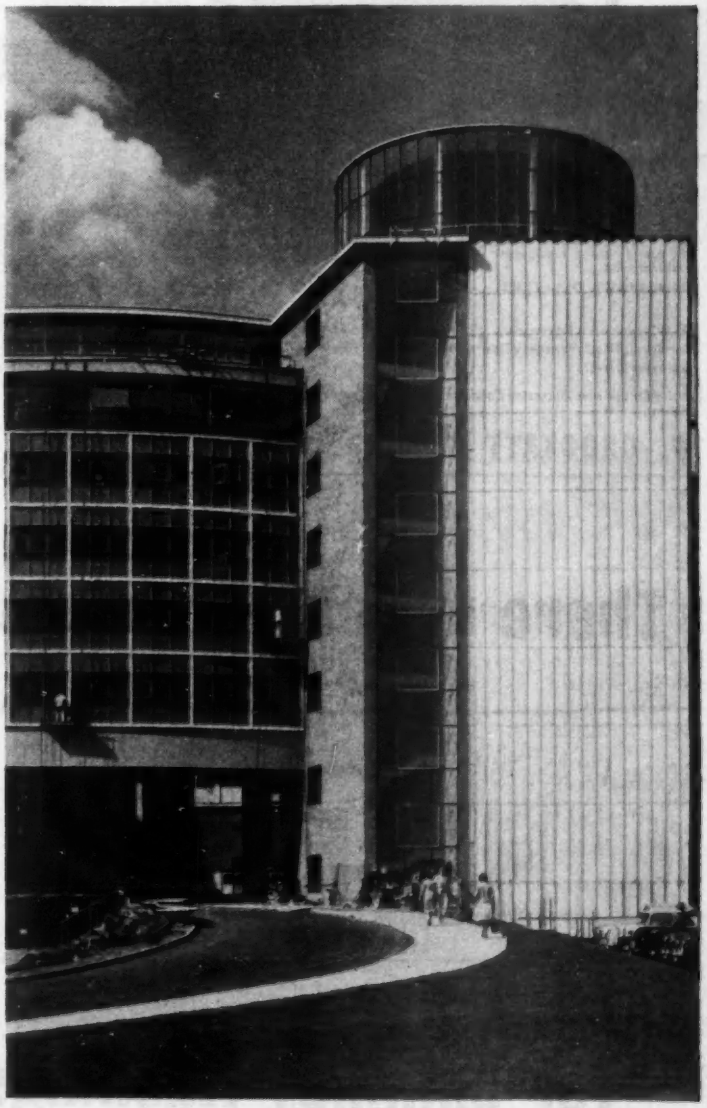

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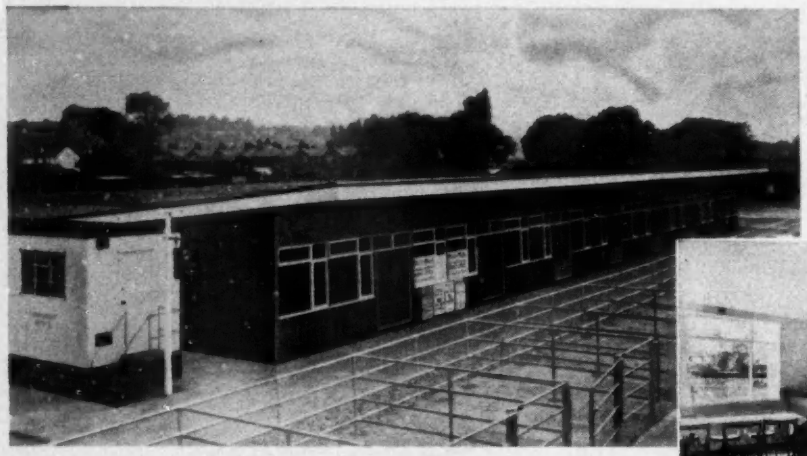

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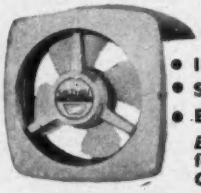

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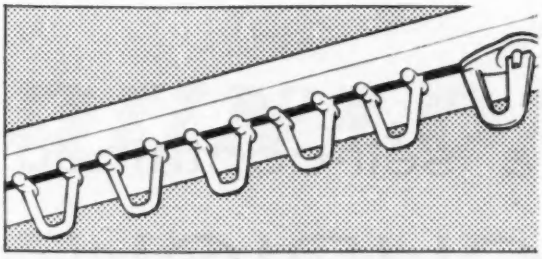

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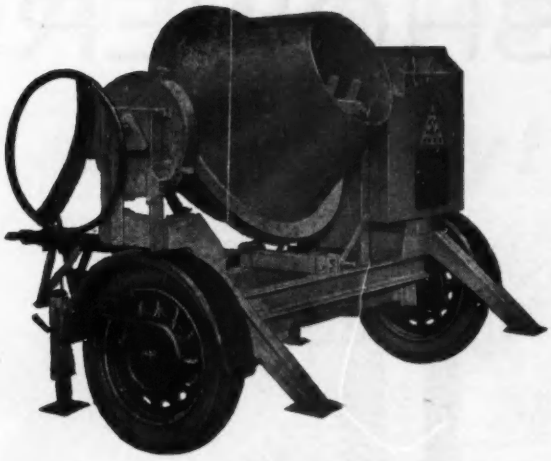

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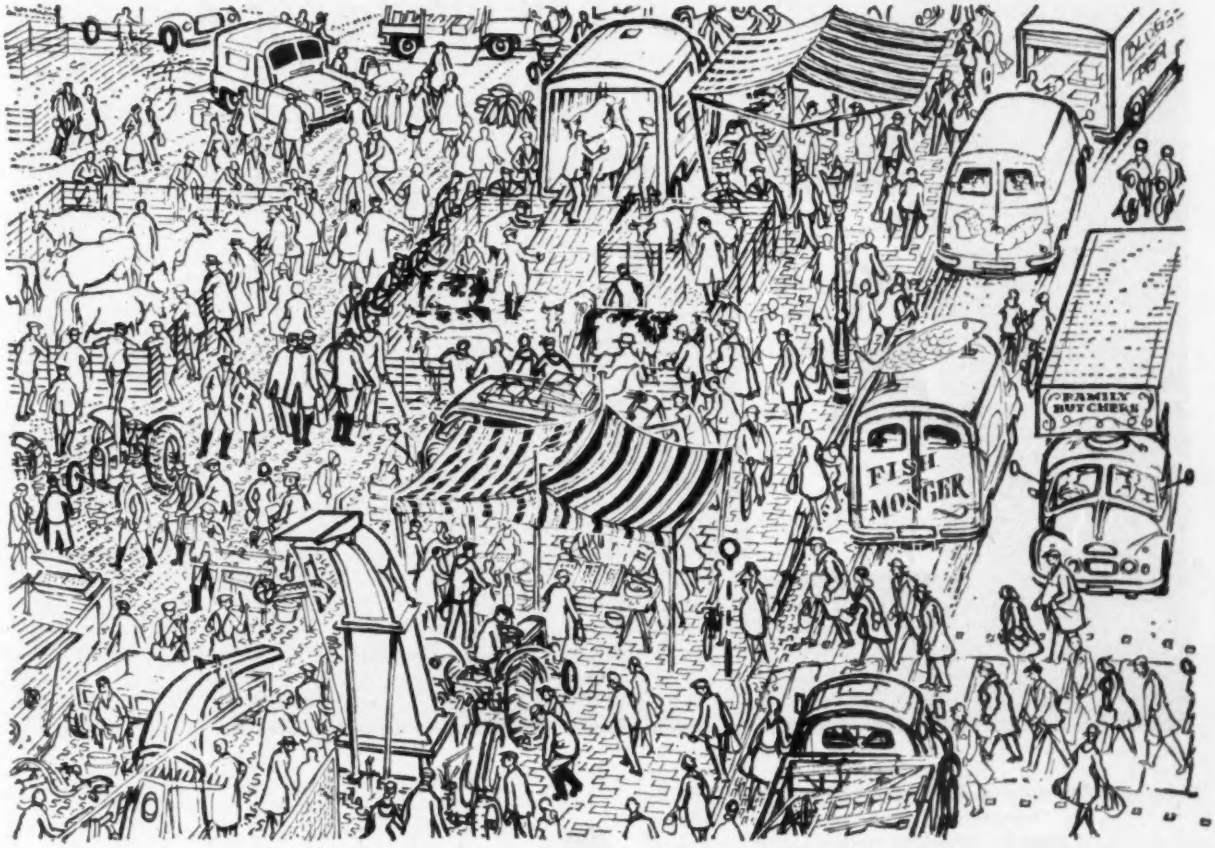

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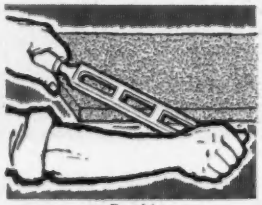

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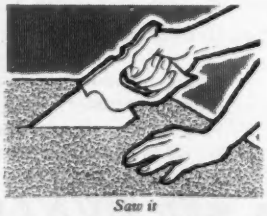

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News

Summary

140 *A scheme for offices and a covered shopping area prepared by Boissevain & Osmond, architects, has been selected from 36 submitted to the London County Council for the redevelopment of a section of the Elephant and Castle area.*

141 *An increase in the building output price indices in the second quarter of 1960 is indicated in 'The Builder' quarterly analysis of trends in productivity and prices.*

151 *Mr. Henry Brooke, Minister of Housing and Local Government, dismissed an appeal against refusal of planning permission to build offices and flats on the site of the Golders Green Hippodrome.*

153 *The scarcity and high price of building land were debated in the House of Commons on Monday evening.*

154 *The Civic Trust's one-day conference on 'Rebuilding City Centres,' which was held at the Middlesex Guildhall last Friday, is the subject of a special report.*

157 *The Court of Common Council refused permission for the erection of an office block at Fenchurch-street Station as this would be contrary to the policy of restricting office development in central areas not zoned for this purpose.*

158 *The annual exhibition of the work of students at the AA School of Architecture is reviewed by Peter Howell.*

160 *Judgment was given in the High Court against a firm of builders who demolished a substantial part of a large house without taking the 'elementary precaution' of first getting instructions in writing from the owner.*

'Late News' will be found overleaf, and 'News of the Week' on page 151

Builder

INCORPORATING ARCHITECTURE & THE BRITISH ARCHITECT

Vol. CXCIX July 22nd 1960 No. 6114

Published from 'The Builder' House, Catherine-street, Aldwych, London, WC2. Telephone: Temple Bar 6251-2-3-4. Annual subscription: £4; for six months £2. Single copies (including back numbers up to 12 months old) 1s. 6d. (post paid 2s.). Indices free on application.

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The peg upon which these thoughts are hung is provided by the recently published report of a post graduate course in cost planning organised by the LCC Brixton School of Building under the sponsorship of the RICS Quantity Surveyors' Committee cost research panel. Sessions of the course were held in November 1959 and May 1960. Copies of the report may be obtained from the RICS, price 20s. each, post free (reduced rate for students).

These lectures range widely and incisively over the subject matter, covering architect and quantity surveyor teamwork, cost research, budgeting for contract, cost information and cost planning. Some of them, it must be said, would seem to be soporific lecturing material. Nevertheless, as a work of reference these papers should be a most useful basis for getting to know a new line of country. A minor criticism is that it would be helpful to have had the pages numbered.

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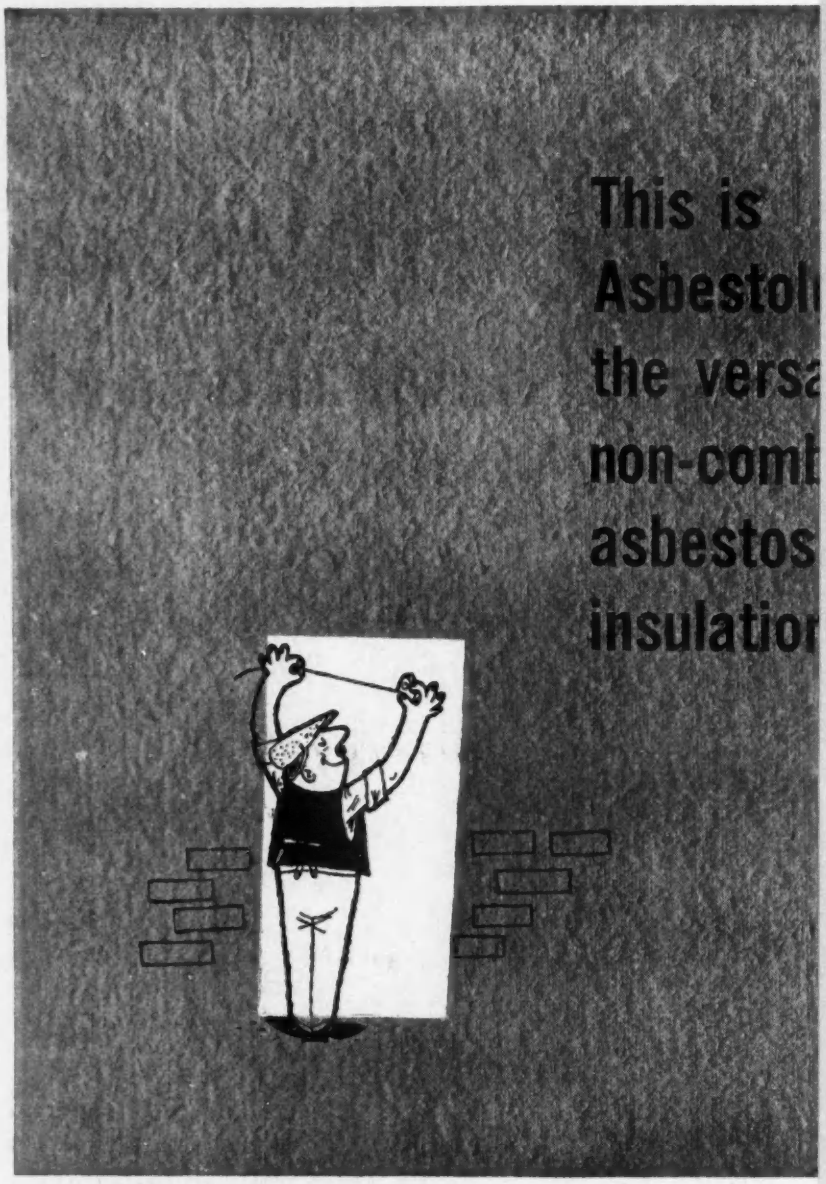

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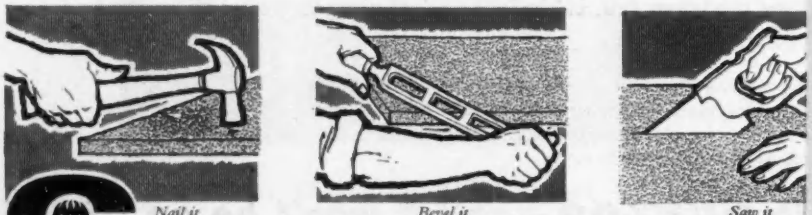

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Late News

MoW List of Contractors

FOLLOWING AN INVESTIGATION by Mr. Harmar Nicholls, JP, MP, Parliamentary Secretary, the Ministry of Works is to revise its procedure for listing possible contractors for its constructional work. The object is to ensure that every building and civil engineering contractor in the country has a fair chance of being considered for Ministry contracts of which, at January 1 last, there were 1,489 in force, 871 of them for new works.

A note and form of application will be sent out to 96,000 contractors (excluding firms with fewer than 5 employees) next September. Lists will be compiled from this return on a regional basis. Firms will require to have certificated opinion as to their technical and financial ability to carry out projects within their range of operations.

Specialist subcontracting firms are not at present to be invited to apply.

The Builder

INCORPORATING ARCHITECTURE & THE BRITISH ARCHITECT

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Cost Study and Quantity Surveyors

THE IMPACT OF COST STUDY on Quantity Surveying in recent years should lead us to consider in which direction is the profession eventually going to face—or whether indeed the intake into it is so full of cream that it is possible to consider facing two ways.

Until about ten years ago, it can fairly be said that the quantity surveying profession had its face towards the contractor and the finished building. Whilst *responsibility* remained first to the client and his architect, the practical demonstration of technical skill by the quantity surveyor was directed towards and influenced by the contractor. The major emphasis within the profession was on contractual documentation—the bill of quantities, the schedule of prices, the articles of agreement, the variations, the final account; in all of which the contractor was the opposite party.

In 1941 the Ministry of Education sent up an innocent looking kite called 'Building Bulletin No. 4, Cost Study,' which has achieved a far greater influence than its modest 24 pages might have foreboded. It turned out to be not a kite but a rocket, which gaily sent out three luminous tails (whose initials ARP should perhaps have sounded a familiar warning!) Cost *A*nalysis, Cost *R*esearch, Cost *P*lanning. The repercussions of these three tails on the quantity surveying profession has been striking, and it is no exaggeration to say that the emphasis for future action, at least with one influential section of the profession, has turned away from the contractor and faced squarely the client and his architect. It is the budget for the job that is now forcing the pace, and such is the energy of this advance that it seems to be firmly consolidating a strategic position without even the reinforcement of a scale of fees attached, a point indicative surely not only of fire-power but of faith.

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Pertinent to the considerations expressed earlier in this

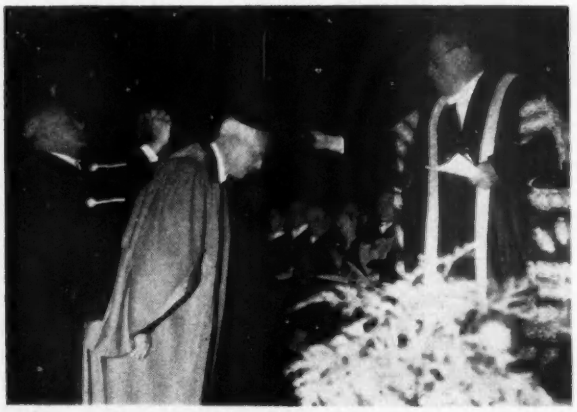
article can be taken the subject matter of the lecture, 'Budgeting for Contracts—Public Development,' for here the parting of the ways is most apparent. The rôle claimed to be pertinent to the quantity surveyor, that of resolving housing densities and the percentages economic to a given site expressed in terms of habitable rooms per acre, hardly comes strictly within the scope of quantity surveying. The broader the quantity surveyor's outlook in all matters appertaining to the building industry, of course, the better quantity surveyor he will be. But should this new line of country, important as it is, come within his ambit? If the individual quantity surveyor chooses to find his fulfilment in becoming a specialist statistical housing consultant, so be it. But why bedevil the quantity surveyor's former profession with this particular slant?

The development of cost consultancy needs careful thought in relation to the evolution of quantity surveying. We have already mentioned a deficiency in the matter of a scale of fees; similarly with the formulation of educational policy there is little in the recently published RICS proposals for a future examination syllabus that would indicate the weight that seems to be exerting itself in this recent *crescendo* of the quantity surveying branch of the profession. Even if regarded as mainly a specialist activity, there is no mention of Cost Study in the list of diplomas suggested for 'post graduate' specialisation under the Building Technology classification, an omission that we might hope to see reconsidered.

Clerks of Works' Examinations

THE INSTITUTE OF CLERKS OF WORKS has performed a useful service in issuing recommendations for technical college courses in preparation for the Part II Examination. The Institute is an old-established body which has provided, for many years, through examination and membership, a widely accepted qualification for clerks of works. The final part of the examination sets out to test the practical competence needed for efficient supervision of building work, and it is in this field that the Institute has felt the lack of adequate provision for study. In certain specialised subjects, such as Site Surveying and Concrete Practice, students preparing for the Institute's examination can find suitable classes at most of the larger technical colleges; it is doubtful, however, whether present numbers will anywhere justify the provision of the course recommended as giving full preparation for the examination.

In this connection, one thinks, inevitably, of building foremanship studies, to the development of which so much attention has been paid over the last ten years. The Institute of Clerks of Works' recommendations have much in common with current recommendations for foremanship studies, and it is remarkable that the Institute's publications make no reference either to the possibility of their candidates studying in foremanship courses or to the granting of any recognition to building foremanship qualifications such as the City and Guilds Certificate. This is an association of ideas that is unlikely to escape the notice of the technical colleges. It deserves equally the attention of the Clerks of Works' Institute.



Professor Pier Luigi Nervi, the eminient Italian architect/engineer, receiving the honorary degree of Doctor of Laws from Sir Edward Appleton, Principal of Edinburgh University on July 7

Notes of the Week

Picasso ; Photography at the Regent-st. Poly ; Gropius on London Architecture ; Make London Livable Group

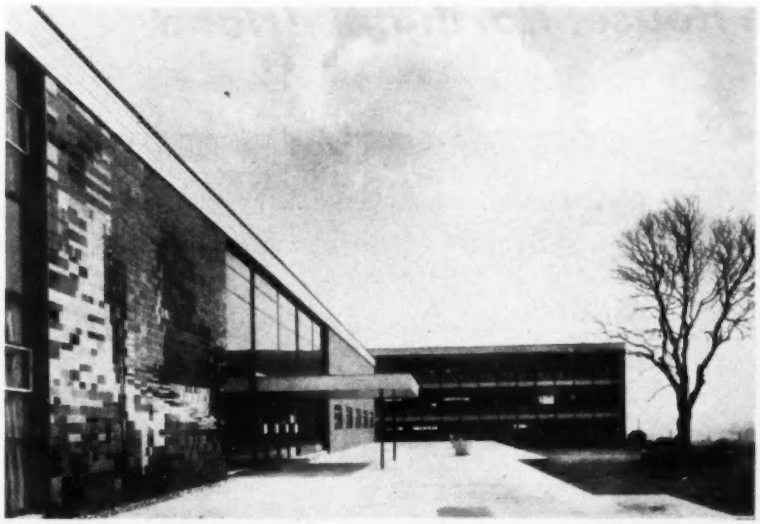
FROM such evidence as the quoted views of disillusioned doorkeepers and the advent of charter-plane-loads of fans from Cincinnati, the newspapers seem left in little doubt that the Picasso Exhibition (at the Tate Gallery until September 18) is an event of international importance, writes Basil Marriott. One might have gone further, and prophesied a great popular success. For all that has been written, however, one important point seems overlooked, on which this short note had best concentrate.

That frighteningly neurotic couple, the 'ordinary' man and woman, for several decades made Pablo Picasso the cult-object of the almost comic love-hate complex towards art which seems a strictly modern disease. Although there has perhaps been a more than usual urge to like his work, and correspondingly less patience when things didn't work out that way, this is largely (one suspects) through mere desire to be in the swim and reluctance to believe that if you didn't like it you needn't look at it. While the haters haven't been looking, however, what Picasso stands for, and often initiated, has passed into the everyday currency not only of the fine arts but also those of commercial and industrial design. In this way, the public has become 'subliminally' inoculated to something which they may well be surprised—and even, in less hardened cases, pleased—to find beautiful when seen at source and at first hand.

This might be expected from the deployment of a genius so facetted, diffused and of almost too facile an invention: but covering as it does some sixty years of pace-setting development, even the doubters should be grateful to the Arts Council for the opportunity, and should surely find something they like in, say, the Blue or the Rose period, before the -isms (and the imitations) set in. But the gratitude of a much greater majority can be assumed when confronted with such consistent power, occasional terror and frequent beauty in reflecting, in action as reflex as a camera, the half-century through which we have lived.

Photography at the Regent-st. Poly

THE POLYTECHNIC SCHOOL OF PHOTOGRAPHY states simply that its aim is to equip its students with the necessary knowledge and confidence to enable them to enjoy successful careers as professional



The Rhodesway Secondary School, near Bedford, which has been awarded the RIBA Bronze Medal in the area of the West Yorkshire Society of Architects. The architects were Messrs. Scherrer & Hicks, F/FRIBA, in conjunction with Mr. W. C. Brown, FRIBA, the Bradford City Architect. The contractors were F. Shepherd & Son, Ltd., of York

photographers. Success can only be proved by results and these may be seen at the annual exhibition of students' work now on view in the Fyvie Hall, Regent-street. The majority of the exhibits show ingenuity, originality and technical perfection far in excess of their creators' practical experience. The exhibits of portraiture and architectural work show particular merit.

In photography it is attention to detail that produces polish and eventual success. This is the striking aspect of the Regent-street students' work; it is particularly evident in the photographs of industrial and architectural subjects. Miss Harker and her staff can justly congratulate themselves on the fulfilment of their aims and the students likewise on a successful year's work in a most exacting art.

Dr. Gropius on London's Buildings

DR. WALTER GROPIUS, who has come to England from America to advise Mr. Jack Cotton on some of his development schemes, refused to condemn the new buildings erected in London since the war when he was interviewed by BBC television in the programme 'Tonight' last week. The only criticism he permitted himself was to say that he thought the façades of many of the new buildings were too plain and flat, which made it hard for the eye to evaluate the structure. In recent buildings in America for which he was responsible he had endeavoured to overcome this effect by the use, among other devices, of deep reveals to the windows. Nor was Dr Gropius to be drawn into expressing himself on comprehensive development schemes projected for London and other cities, but it is fair to point out that at the time of his interview he had not been in this country very long; perhaps he will be more forthcoming when he has had the opportunity to study some of our new buildings and development schemes in greater detail.

The engineering, research and development building of the Bowater Paper Corporation at Northfleet, Kent, designed by Messrs. Farmer & Dark, of London, which has secured the RIBA Bronze Medal Award for a building of exceptional merit completed between 1957 and 1959 in the area of the South Eastern Society of Architects. The main contractors were Holland & Hannen and Cubitts (Great Britain), Ltd.

'Make London Livable'

ENCOURAGED by receiving the good wishes of Mr. Ernest Marples, Minister of Transport, the Make London Livable Group is to continue in being and hopes to arrange an exhibition in the autumn to rally public opinion to the causes it was created to promote. This was confirmed at the Group's second meeting, held in London on Monday with its president and founder, Lord Bossom, in the chair.

Members of the Group heard of the progress being made in obtaining support for its aims—the most immediate and definite of which is the arcading of shops and offices in congested London streets to provide more room on the roads—from their energetic chairman, Mr. Geoffrey Cooper. An interesting suggestion put forward by Lord Bossom, which the meeting approved in principle, was to reconstitute the Group as the Make London Livable Trust, which would provide substantial tax relief benefits from supporters who would agree to make their contributions under 7-year covenants. The Group has, no doubt, a few more hurdles to overcome before it is firmly established as a Trust, and can be certain of the necessary financial support, but those who have seen Lord Bossom at work reconciling its initial problems will have little doubt that it will come successfully through all its teething troubles.

Poet's Corner

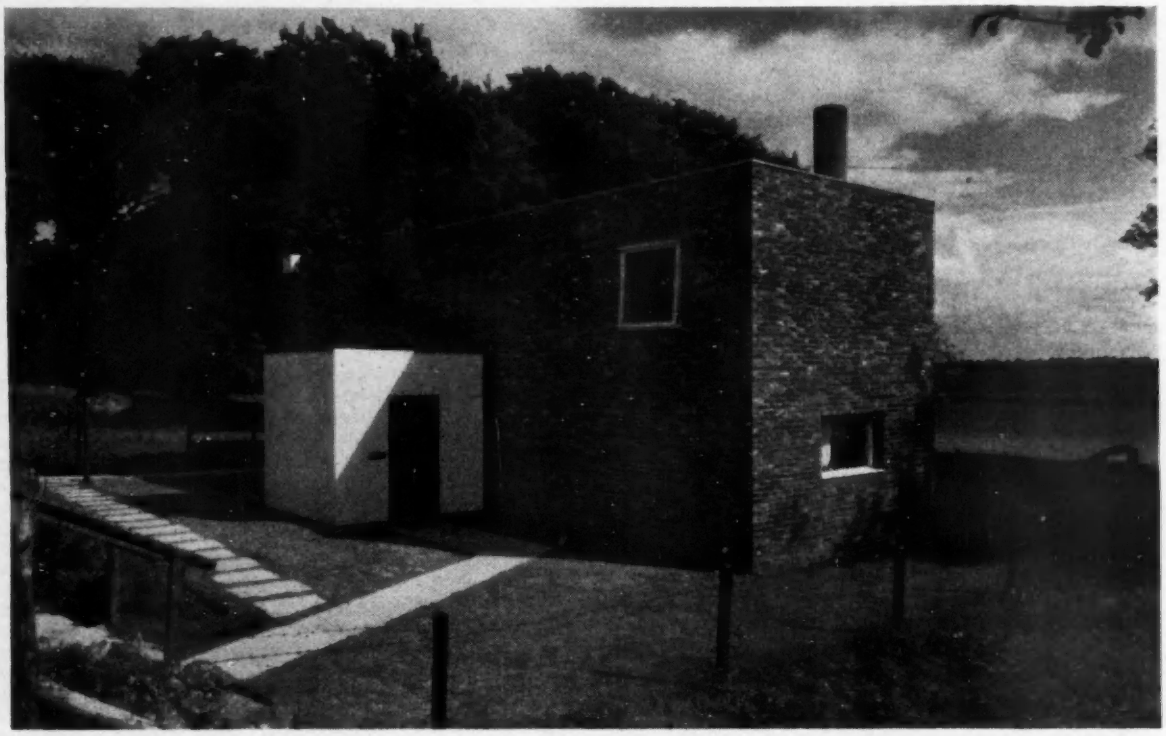
A Study Group of the NFBTE, reviewing the Report of the Radcliffe Committee on the Working of the Monetary System, has warned against the dangers of imposing licensing or other direct controls on building.

Building! The foundation of our national prosperity—
Weakened long by politics and theories of austerity—
Having struggled back to strength with effort and with pain,
Must you be reshackled and frustrated once again?
O Treasury and Radcliffe, the affliction of 'control'
Would quickly put us out of work and back upon the dole!
Stay your hand and think again, unitedly we beg,
Before you kill the building goose that lays the golden egg!

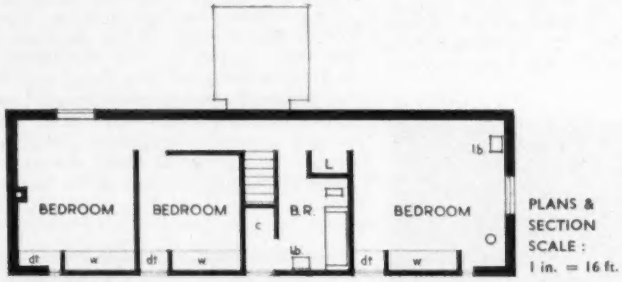
ANON.

Private House, Northumberland

RYDER AND YATES, architects

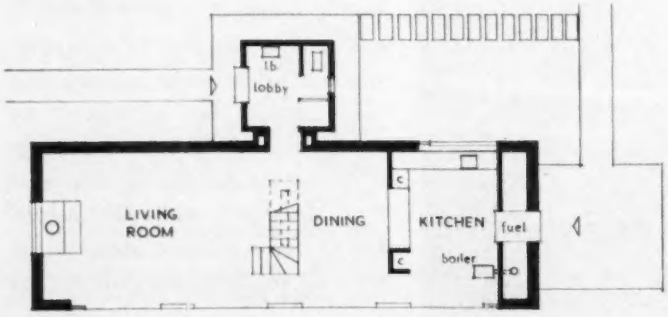


Projected entrance lobby, and north-west corner of the house



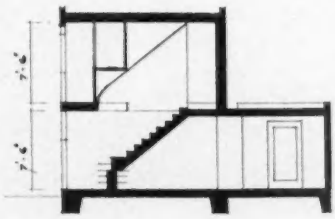
FIRST FLOOR

GROUND FLOOR



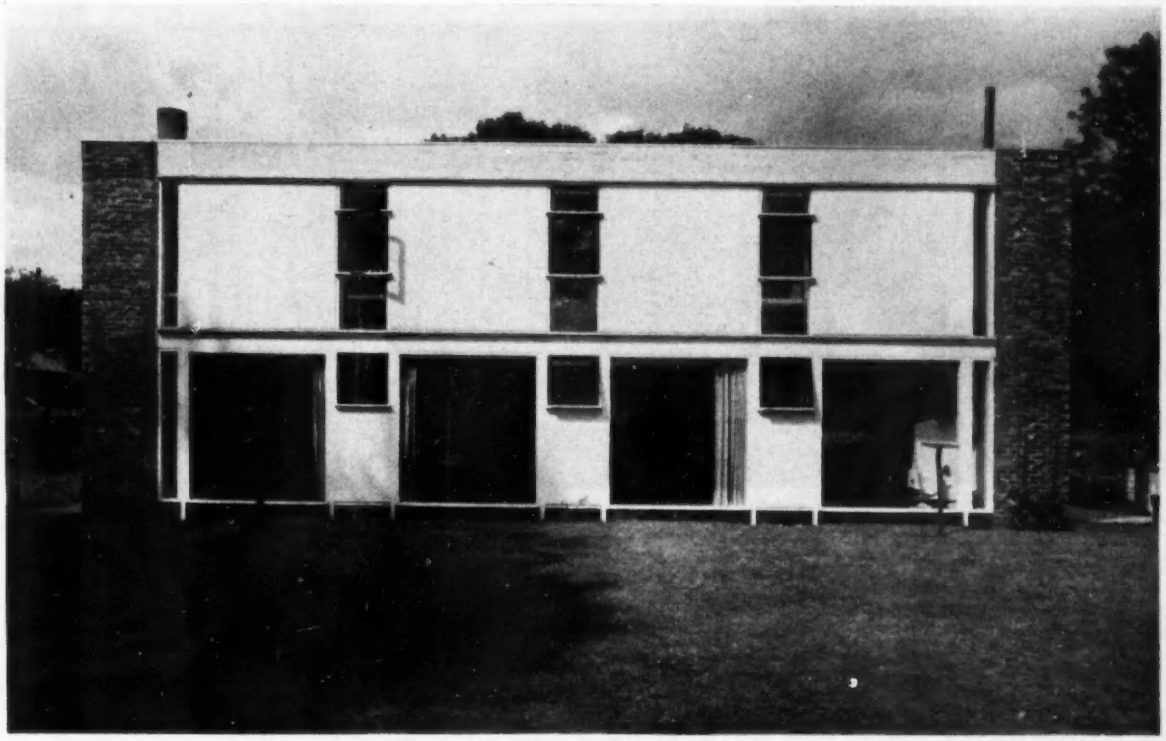
THE CLIENT for this house at Stanton Hall, Longhorsley, gave the architects freedom to select a site from the many square miles of the Annett estate. It was not surprising to find that the most agreeable and sheltered area lay in the vicinity of the old manor house.

Stanton Hall is a 14th century watch tower of a type common in the border country, to which a square classical banqueting hall was added in the 18th century. At this time the landscape was formed into terraces, and the lower level made into a herbaceous and kitchen garden surrounded by red brick walls with dressed stone gateways. Later the garden



CROSS SECTION

JAMES DODDS & SONS, general contractors



Alternating pattern of glazing and vertical boarding, south elevation

East wall, towards Stanton Hall

became derelict, the high walls collapsed, the gateways fell, leaving a beautiful level platform for the new house, strewn with handmade bricks two hundred years old. These bricks were used on the east, west and north walls of the new house. To set off this colour and texture, the south façade is of white square-grooved vertical boarding which frames with precision the pattern of window opening. The formality of the design replaces that of the garden walls, and its proportions echo the banqueting hall.

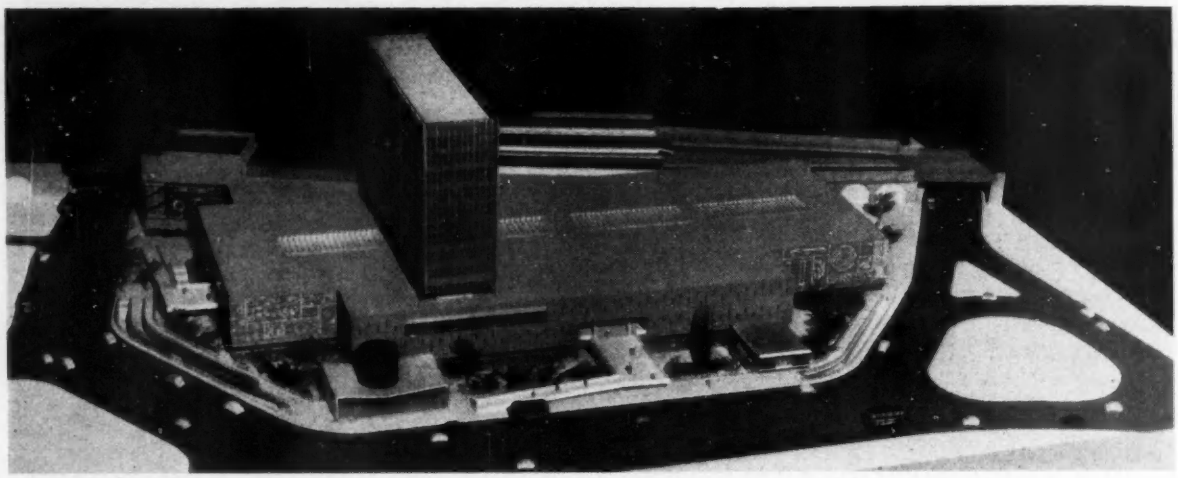
Sub-Contractors & Suppliers:

Plumbing & heating: M. Aynsley & Sons Ltd.; *floor finishes:* Marley Tile Co. Ltd.; *pre-cast concrete:* S. Tyzack & Co. Ltd.; *sanitary fittings:* Adamsez; *roofing:* D. Anderson & Sons; *coke-fired boiler:* Janitor; *electrician:* W. Elliott.

Elephant and Castle Redevelopment

Selected Scheme of Offices and Covered Shopping Centre

BOISSEVAIN & OSMOND, architects



A model of the successful scheme with its two main elements—the horizontal shopping block and the vertical office block

AT THEIR MEETING on July 19 the London County Council's Town Planning Committee reported on proposals for private development of the principal shopping site at the Elephant and Castle. The area covers a little over three acres between two roundabouts opposite the Metropolitan Tabernacle. Thirty-six proposals were submitted and from these the Council have accepted the scheme designed by Messrs. Boissevain and Osmond, A/ARIBA, for the Willett Group of Companies.

The Town Planning Committee considered that this scheme was outstanding both from an architectural and planning viewpoint. It is basically an arcaded multi-level shopping centre surmounted in the centre by a 170 ft. office tower. It will contain the largest covered shopping centre in the world, it is claimed.

The shopping block is planned on three levels. The main feature is a great glass-roofed arcade rising through two floors and laid out with planting and fountains, sculpture, pavement cafés and seats for shoppers. The arcade is cruciform in plan: the main arm, 60 ft. wide, runs the whole length of the site linking the two roundabouts, and the shorter arms give access to the 'bus stops and the main-line railway station. The glass roof is designed to slide back in fine weather. The floor of the main arcade is 9 ft. above pavement level and under this is a lower arcade 7 ft. below pavement level, which connects the subway systems and gives on to a sunken pedestrian concourse in front of the building.

Pedestrians approaching from the 'bus stops or other pavements need only travel half a flight up or down by easy ramps to reach either of the two main floors. Internally the three floors are connected by escalators and staircases. The shop areas are capable of flexible subdivision and the plans suggest large department stores in the front part of the building with small shops at the back. The offices have been included in a single building above the shopping block.

The overall scheme consists of two main elements, the horizontal shopping block and the vertical office block, resulting in a simple and architectural composition. Service access is by way of a ramp to a sub-basement road running the length of the building and giving access to four loading bays, from which service lifts serve all floors.

Parking for 154 cars is in two basement levels. Illuminated advertisements are grouped at the corners of the shopping block facing the two roundabouts and the submitted drawings include a scheme by an advertising consultant. One panel facing the Draper-street scheme is not to be illuminated. The scheme contains 201,900 sq. ft. of shop space and 87,900 sq. ft. of offices. The scheme, which is to be put out to tender during 1961, will cost approximately £1½m. It is planned to complete construction within 3 years.

An exhibition of all the designs submitted has been arranged in the north block of County Hall. It is open to the public until July 29.

A perspective looking from the site of the Elephant public house towards the underground station, the entrance to which will be rebuilt to form part of the overall scheme. In the centre is part of the ramped entrance to the upper levels of the shopping arcade and towering above it in the background part of the office block is shown. The floor of the main arcade is nine ft. below pavement level, which connects the subway systems and gives on to a sunken pedestrian concourse in front of the building

LCC Architect's Department Changes

THE DIRECTING and programming staff of the London County Council's housing architects division is to be increased by two senior assistant architects. Twenty professional staff, grade II, whose maximum salary will be £1,500, will at the same time replace 30 temporary technical assistants.

Productivity and Prices

'The Builder' Quarterly Analysis of Trends

Specially prepared for 'The Builder' by Professor C. F. Carter, Stanley Jevons Professor of Political Economy, University of Manchester, and a former member of the Girdwood Committee on the Cost of Housing, from statistics kindly supplied by the Ministry of Works (Statistical branch).

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THE FIRST POINT of interest in the figures presented this quarter is provided by the behaviour of prices. After remaining constant throughout 1958 and 1959, the general index of the price of British manufactures on the home market has started to move upwards; building material prices have been edging upwards since last summer, and the second quarter found them up by another point; building wages have risen, after a year of stability, and seem to be back on the trend which they have been following since 1957. The effect of these changes on the building output price indices is a matter for conjecture, but I have made the plausible assumption that they will have moved up by one or two points in the second quarter. The 'all building' index was, according to the Ministry of Works, back to 113 in the first quarter.

Comparisons

On the face of it, Mr. Venning's chart ('The Builder' of May 27, 1960) tells a less satisfactory story, since it shows a rise of 2 per cent between mid-1959 and mid-60. The index most closely comparable with the Venning figures is that for 'new non-housing work,' and this (in our table B) is shown as the same in the second quarters of 1959 and of 1960. But Mr. Venning's building cost index was nearly constant from 1956 to 1959; comparing mid-1956 with 1960, our index actually shows a larger rise. In fact, these figures are not closely comparable over short periods, and little attention should be paid to short-period differences.

It is worth remembering, too, that the price of building work depends not only on the prices of materials and labour, and on productivity, but also on the additions made for overheads and profit. There is no way of tracing short-term changes in these items; my own guess is that overheads may have been rising slowly—as a consequence of the increasing mechanisation of the industry, and the increasing importance of the larger firms. I should be interested to hear from any readers of 'The Builder' who may have evidence on this point. As for profits, the issue may be put crudely as follows: before the recent wage increase, were the fruits of higher productivity being passed to the buyer (in lower prices), or being paid out to the owners or shareholders of building firms, or being ploughed back in the form of better equipment? Is the wage increase being 'absorbed,' i.e. paid at the expense of profits, or is it being passed on to the

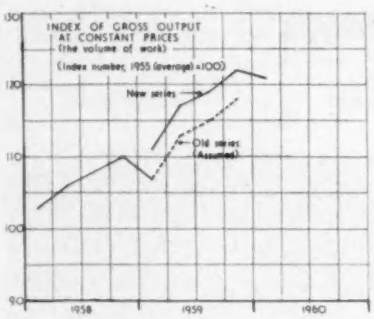
TABLE A.—OUTPUT OF THE BUILDING AND CIVIL ENGINEERING INDUSTRY IN GREAT BRITAIN (excluding direct work of Public Authorities)

	Actual value of gross output	Values at 1955 average prices			Indices, 1955 (average) = 100 (constant prices)		
		Gross output	Net output	Input of materials	Gross output	Materials input per man-month	Net output per man-month
	£ mn.	£ mn.	£ mn.	£ mn.			
TABLE 1.— *New housing work*							
1956*	142	135	60	75	99	105	103
1957*	138	130	58	72	95	109	109
1958 I	125	117	52	65	85	111	108
II	132	122	53	69	89	117	110
III	131	122	54	68	89	113	111
IV	130	123	54	69	90	119	114
1959 I	132	126	55	71	92	124	117
II	140	132	59	73	96	119	118
III	146	139	61	78	101	126	122
IV	150	145	64	81	105	131	125
1960 I	**147**	**143**	**64**	**79**	**104**	**128**	**126**
TABLE 2.— *New non-housing work*							
1956*	192	184	87	97	119	106	107
1957*	208	192	91	101	123	106	108
1958 I	210	190	90	100	122	106	107
II	221	196	92	104	127	108	107
III	228	202	94	108	130	111	108
IV	228	206	95	111	133	115	111
1959 I	225	207	96	111	133	117	114
II	239	217	101	116	139	118	116
III	243	221	103	118	142	120	118
IV	239	221	104	117	143	122	121
1960 I	**236**	**221**	**103**	**118**	**142**	**124**	**123**
TABLE 3.— *Repair and maintenance work*							
1956*	100	93	63	30	101	107	101
1957*	101	90	62	28	98	105	100
1958 I	99	89	60	29	97	110	101
II	104	90	62	28	98	104	100
III	105	90	63	27	99	101	100
IV	107	94	64	30	102	110	101
1959 I	107	94	63	31	103	111	101
II	117	99	65	34	108	123	101
III	118	99	67	32	108	112	101
IV	120	103	66	37	112	128	102
1960 I	**117**	**100**	**65**	**35**	**110**	**127**	**102**
TABLE 4.— *All building and civil engineering work*							
1956*	434	412	211	201	107	107	104
1957*	447	412	212	200	107	108	106
1958 I	434	396	202	194	103	109	106
II	457	408	207	201	106	110	106
III	464	414	211	203	108	110	107
IV	465	423	213	210	110	115	109
1959 I	464	427	214	213	111	118	111
II	496	448	225	223	117	119	112
III	507	459	231	228	119	120	114
IV	509	469	234	235	122	126	117
1960 I	**500**	**464**	**232**	**232**	**121**	**126**	**118**

TABLE B.— PRICE COMPARISONS
Index number (1955 First Quarter = 100) of the prices of:

	All building materials	Materials for housing	Building labour per man-hour	Output price indices: All building	Output price indices: Housing work	Output price indices: New non-housing work	Manufactures, 'output' price index†	Retail prices†
1953*...	97	96	93	97	97	97	99	96
1954*...	97	97	97	97	97	98	100	98
1955*...	102	102	104	103	103	103	101	102
1956*...	107	106	113	108	108	107	106	107
1957*...	111	109	119	112	109	112	109	111
1958 I	112	109	122	114	111	114	110	113
II	111	109	123	114	110	114	110	115
III	111	108	125	114	110	115	110	114
IV	111	108	125	114	109	114	110	115
1959 I	110	108	126	113	108	113	110	116
II	110	108	128	113	108	112	110	115
III	110	108	128	113	107	111	110	115
IV	111	108	128	112	107	111	110	115
1960 I	111	109	128	**113**	107	**110**	110	115
II†	**112**	**110**	**132**	**114**	**109**	**112**	**111**	**116**

* Quarterly average. † Not Ministry of Works estimates.
In both tables figures in **bold type** have been changed or added since last quarter.



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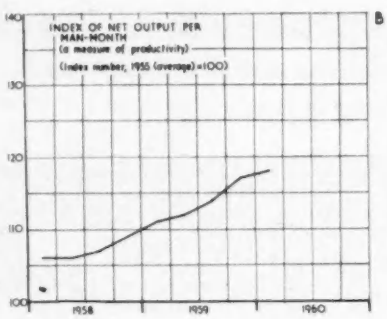

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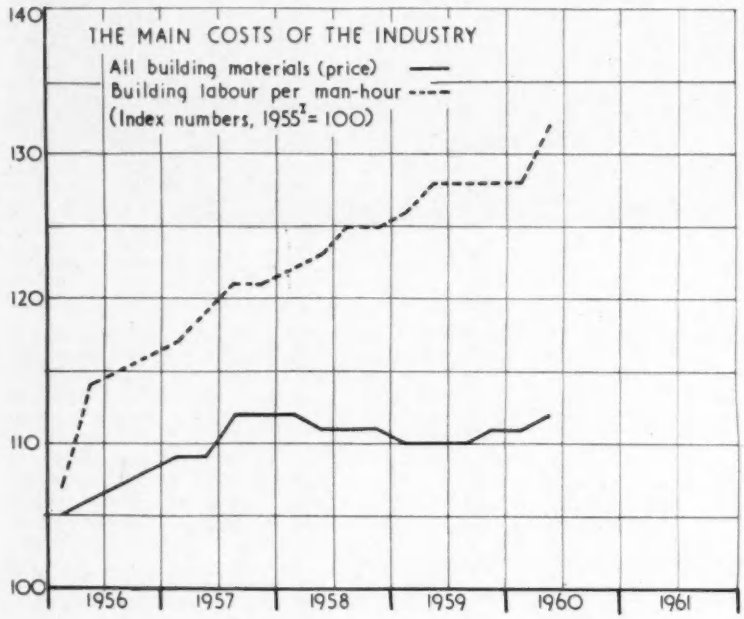

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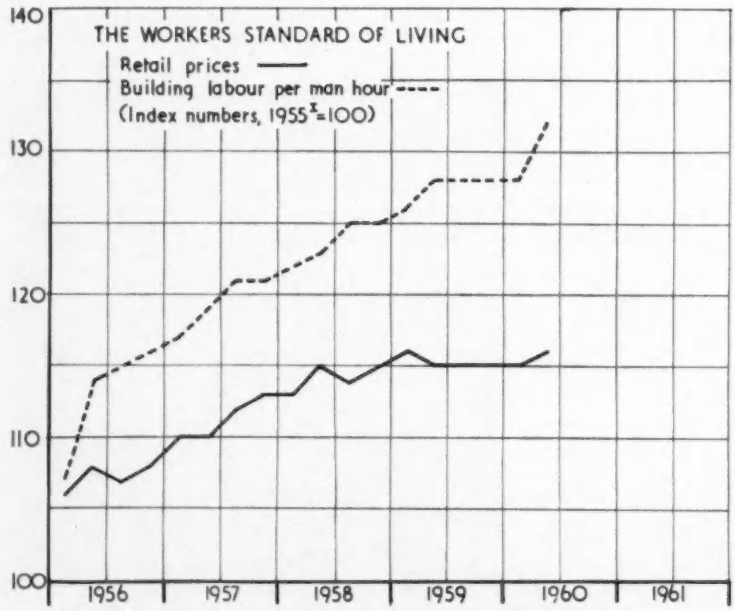


D

buyer? I do not know the answers to these questions, but it would not be surprising (at a period of high activity in the industry) if higher productivity has caused higher profits, and if the wage increase has been passed on to buyers because of a reluctance to see profits squeezed. Such a state of affairs would not necessarily mean that profits have become unreasonably high.

Erratic Economic System

The upturn in prices suggests one of the reasons for the Chancellor's recourse to a higher Bank Rate and other new restrictions. The effect of these measures on building may simply be to prevent a further overloading of the industry; in particular, there is no great threat in the proposal to stabilise public capital expenditure, when this stabilisation is to be at a high level. It is not the immediate effect of the restrictions which should be worrying British industry, but the long-term implications of living in an economic system which can never go 'full speed ahead' for more than a few months without running into trouble.

The fall in the output of the building industry, shown in the first of the small charts, is purely seasonal—indeed, a decline of only 1 per cent in the volume of output from the fourth quarter of 1959 to the first of 1960 is rather small. Orders for new work obtained in 1959 were greater than output; houses under construction at the end of the first quarter were 14 per cent up on a year before; educational buildings under construction were a little lower, but approvals of new projects were running at a high level; industrial building approvals have recently been high. A further period of high activity therefore seems assured. The rise of productivity was continued in the first quarter; the crude measure of the gain is 6 per cent per year since the beginning of 1958, but it can hardly be expected that so high a rate will be maintained.

Statistics

Those whose appetite for statistics is not satisfied by these quarterly morsels should look at a useful and competent publication of the Federation of Civil Engineering Contractors, 'Statistics on Construction' (May, 1960, price 1s.). This brings together in nineteen tables a variety of statistics on the construction industries—output, orders, capital formation, employment, hours, earnings, accidents, costs, sizes of firms, sources of finance for construction, and so on.

The statistics are annual (and therefore of use mainly in judging long-term trends); they include some items seldom found elsewhere, such as power stations under construction, water supply and sewerage schemes authorised, work done by British contractors overseas, and numbers of firms and workers in the various specialist trades. The statistical presentation is good and careful. It would be valuable if the Federation would consider a quarterly supplement to this booklet, with some important short-run series presented in chart form.

Letters to the Editor

Sir William Holford and City Architecture; Self-Help Housing, Puerto Rico; The RICS Benevolent Fund

SIR,—According to a report in a recent issue, Sir William Holford has written that in his opinion the City of London 'has not one absolutely first-class modern office building in it.'

This criticism—coming after so many large and expensive City office buildings have been erected to the designs of well-known architects—is bound to provoke considerable opposition to what may be considered a 'wild and woolly' sweeping statement.

Bearing in mind the criticism of the St. Paul's Cathedral project and the report on the National Gallery extension architectural competition—would it not prove of interest to your many readers if Sir William Holford would furnish them with a brief list of modern office buildings that he considers absolutely satisfactory from the architectural standpoint?

SIDNEY LOWETH [FRIBA],
2 Balfour-court, Folkestone, Kent.

Self-help Housing, Puerto Rico

SIR,—As a delegate to the recent World Congress on Housing and Planning, Puerto Rico, I read with considerable interest your report of proceedings on page 56 of 'The Builder' of July 8, but feel that the great volume of excellent house-building that has been done in the past under the Self-help and Mutual Aid Schemes was done less than justice by the passing reference in the sixth paragraph.

The achievements in Puerto Rico in this sphere are not surpassed by any other country, and recently the foundations were laid for the ten-thousandth house to be built under the aided self-help programme. A simple ceremony marked this historic event and plans are now being evolved to begin the construction of a further four thousand units in 1960-61, and five thousand units in the following year.

It is true that this type of scheme may not be suitable for all countries, but for the backward ones of the world it is known to have been of great help in solving the vital social problems of housing. Hundreds of delegates from the under-developed countries have been to Puerto Rico to study their methods. Possibly in Puerto Rico the pace will slacken in due time, as your Special Correspondent envisages, but I think the past and present achievements should be given due recognition.

S. A. FINDLAY,
General Manager, SSHA Ltd.,
15-21 Palmerston-place, Edinburgh, 12.

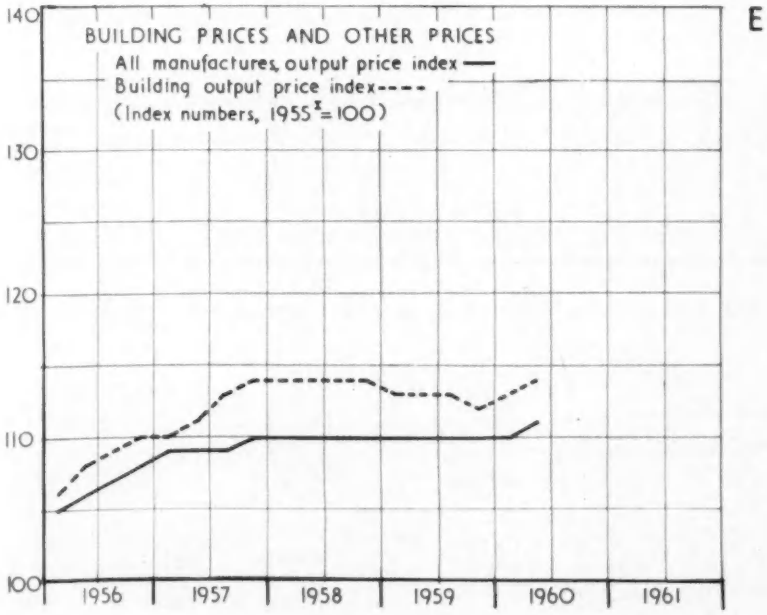
The RICS Benevolent Fund

SIR,—My attention has been drawn to the Notes in 'The Builder' of July 8 with regard to the decision by the RIBA Council 'not to approve a proposal by which the annual subscription would be raised by 5s. annually, this sum to be transferred to the charitable funds of the ABS.' I see that it is stated that such a practice has long been adopted by the RICS.

As honorary treasurer of the Chartered Surveyors' Benevolent Fund I would be very grateful if you would allow me to correct this mis-statement. It is quite incorrect to say that a part of the members' subscriptions is used for the work of the benevolent fund. All subscriptions to our fund are entirely voluntary and long may they continue to be so.

G. D. WALFORD [FRICS, FIArb],
Honorary Treasurer,
Chartered Surveyors' Benevolent Fund,
7-9 St. James's-street, SW1.

'We should retaliate by sending one of our best men to streamline that mess they call their Presidential election!'



Architectural Association

Presentation of Awards

MR. EDWARD PLAYNE, DSC, FRIBA, president of the Architectural Association, presented the awards to successful students of the School of Architecture on July 14. The following students received awards:

First year.—Howard Colls Travel Scholarship, F. Duffy; year prizes, J. Mosse, F. Duffy, F. Willcock, A. Johnson-Marshall and J. Crallan.

Second year.—AA Travel Scholarship, C. Jackson; Institute of Clayworkers Prize, H. C. H. Cross; year prizes, H. C. H. Cross, W. Forrest, P. C. Simpson, C. F. Jackson and M. Hopkins.

Third year.—Holloway Scholarship (for study in some form of building practice), A. J. Harrison; AA Travel Scholarship, P. S. Sprent; year prizes, C. Woodward, D. Bridges, M. Haxworth, D. J. Dixon, A. Richardson and D. Burton.

Fourth year.—Roland Wilmot Paul Travel Scholarship, R. G. Huddleston; RIBA Henry Jarvis Prize for Construction, J. R. Gosling; year prizes, B. Knight, H. W. Tang, A. E. Oral and R. G. Huddleston.

Fifth year.—Henry Florence Travel Scholarship, P. Cook; medal presented annually by le Societé des Architectes Diplomes par le Gouvernement, Paris, to the best Diploma student of the session, T. D. Tinker; year prize, P. Stone, D. S. Cartwright, R. Rogers, T. D. Tinker and A. J. Denman; scholarship offered by Imperial Chemical Industries Ltd., P. Stone; scholarship awarded by the Building Centre to a student in the fourth or fifth year for research into use of building materials, P. Cook; prize for good colour work awarded by the Walpamur Company, D. Etherton; Alec Stanhope Forbes Colour Prize for the best colour work during the session, P. S. Leong.

*** A review of the Annual Exhibition of Students' Work at the AA is on page 158.

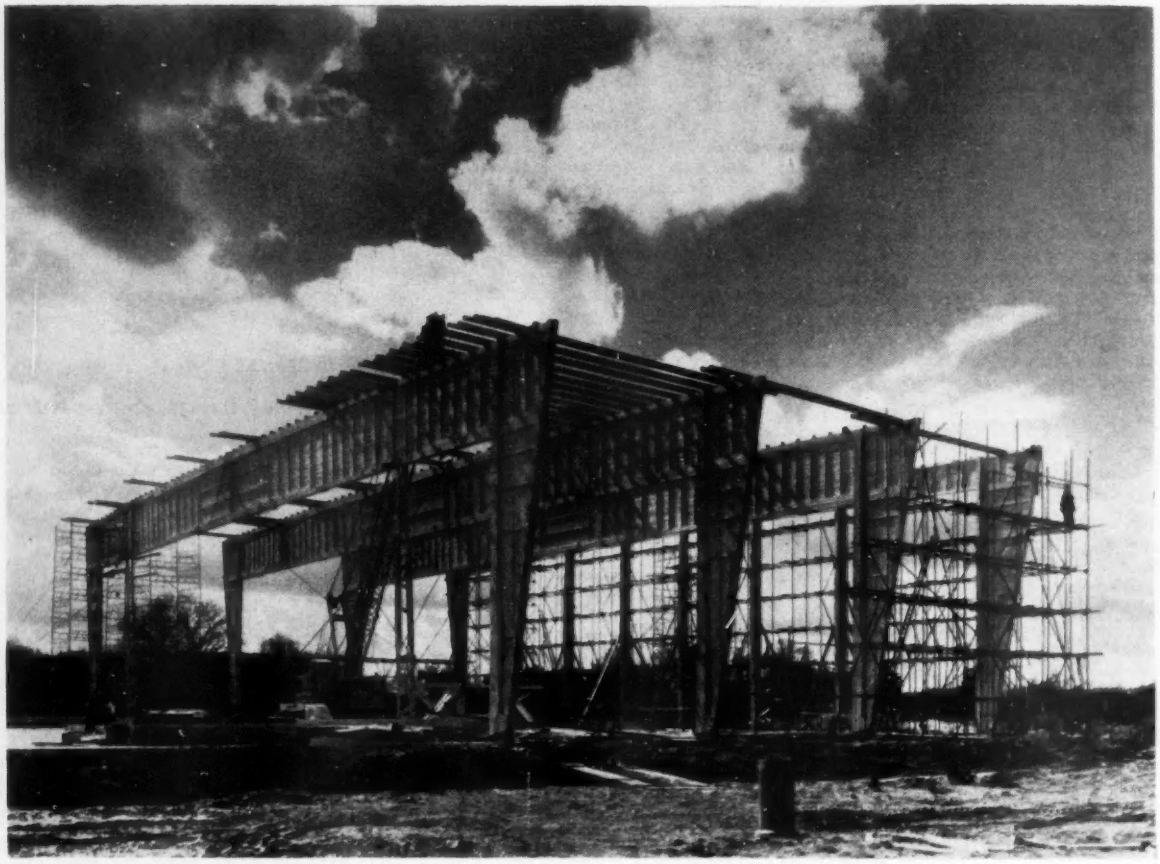
RICS Cost Planning Report

COPIES OF THE REPORT on the first post-graduate course in cost planning, sponsored in November last by the RICS quantity surveyors' committee and by the cost research panel of the Institution, arranged and administered by the LCC Brixton School of Building, are now obtainable from 12 Great George-street, SW1, price 20s. post free.

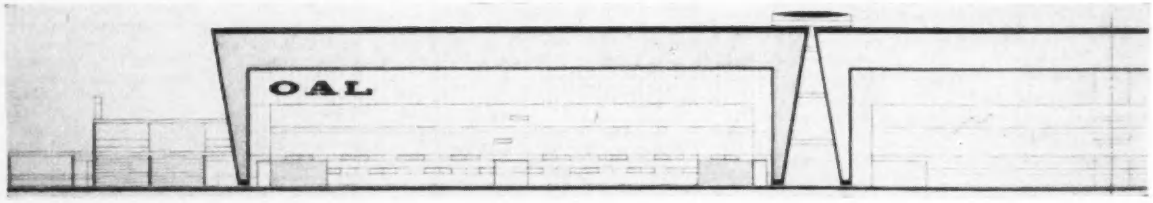
Timber Hangar, Gatwick Airport

P. AND D. T. MYERS, architects

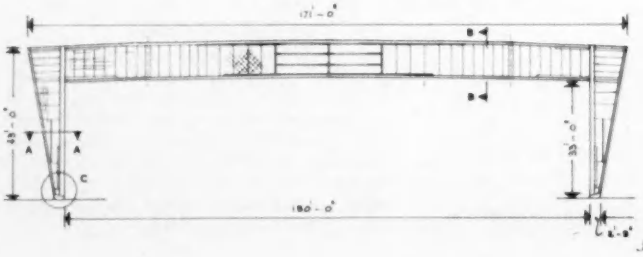
DONOVAN H. LEE & PTNRS., consulting engineers

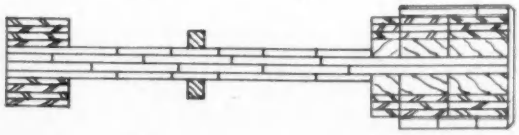


The portal frames are at 30 ft. centres and held laterally by the roof purlins



Part elevation of the hangars. Offices are grouped in the 'dead' area between portals



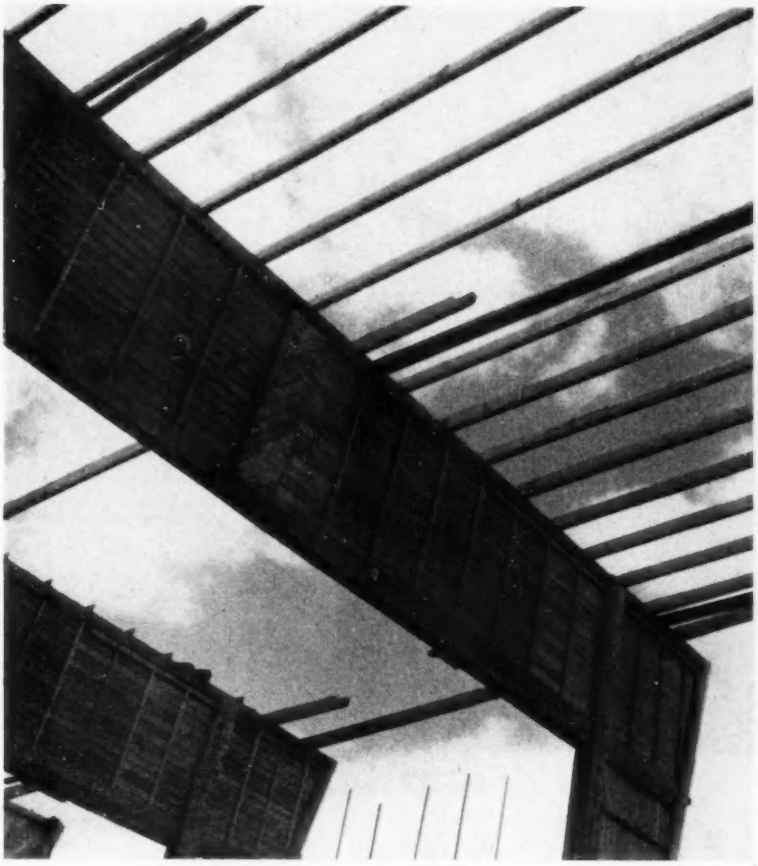


PLAN AA
OF POST

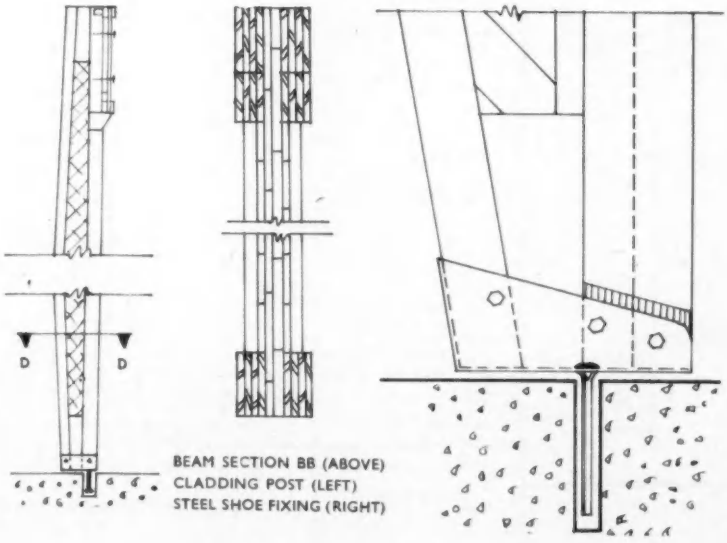
PLAN DD
CLADDING
POST

PARKER & BROWNE, quantity surveyors

BEVES & CO. (STRUCTURES) LTD., timber structural frame



A spliced connection in the portal beam



BEAM SECTION BB (ABOVE)
CLADDING POST (LEFT)
STEEL SHOE FIXING (RIGHT)

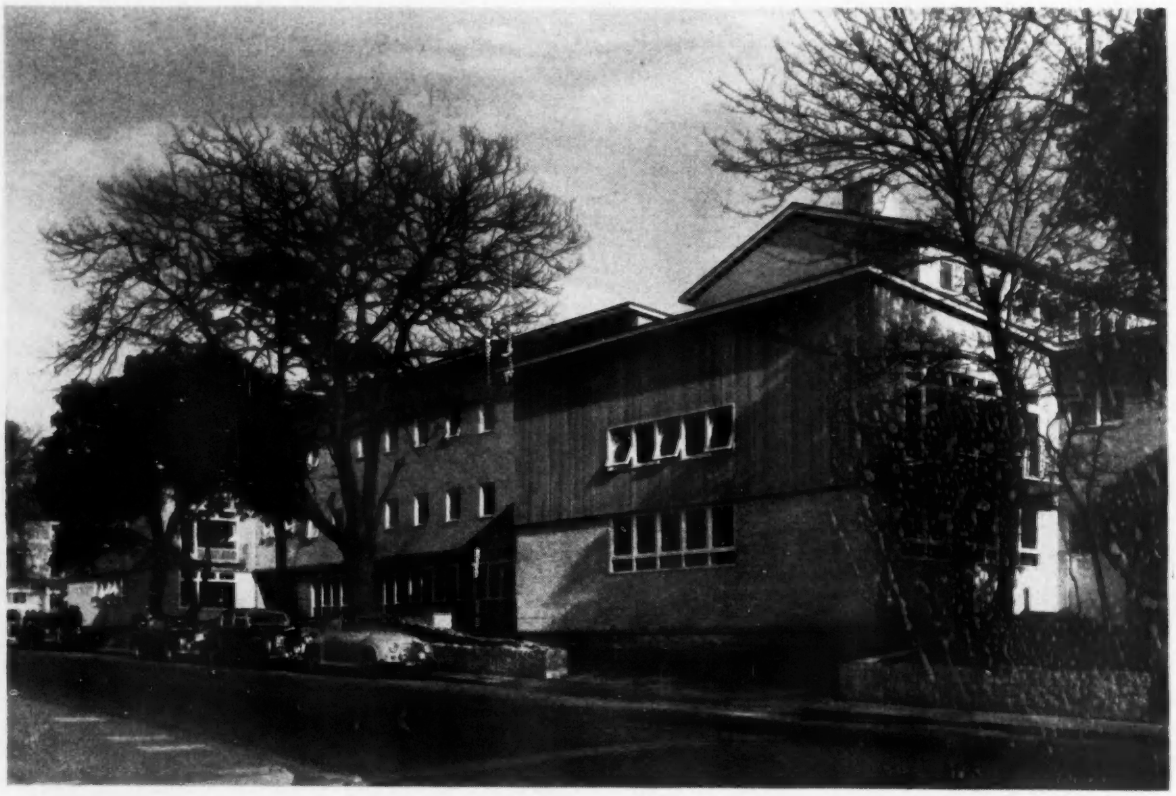
THIS AIRCRAFT HANGAR, built at Gatwick airport for Overseas Aviation Ltd., is an interesting example of the use of timber for large structures. The particular requirements at Gatwick called for a large-span single-storey building with a fire resistance rating of one hour, constructed at a cost competitive with other systems and requiring little maintenance.

The hangar is 150 ft. square and 33 ft. clear height, to which two more hangars will be added at a later date making a combined structure of 500 ft. x 150 ft. The structural unit is an HB system portal frame manufactured by Beves & Co. (Structures) Ltd. Frames are I-section built up from standard timbers glued and nailed, and are site fabricated from shop-prepared lengths. The web has two layers of 1¼ in. diagonal boarding, sloped at right angles to each other. The flanges are built up on each side of the web from several laminations. The design is such that bending moments occur in the flanges and shear force is taken by the web. Each frame is capable of supporting a distributed load of 56 tons. The beams were fabricated in three lengths and connected by steel splice plates, and then nailed to their posts. Fibre board linings are then added and vertical stiffeners to the column web. Steel shoes are bolted to the feet of the portals which are dropped into pockets in the floor slab. Foundations are mass concrete bases connected by tie beams. The portal frames are clad externally in Twin-Twelve built-up sheets by UAM Co. Roofing is Stramit board and asbestos paper with a fire resistant lining.

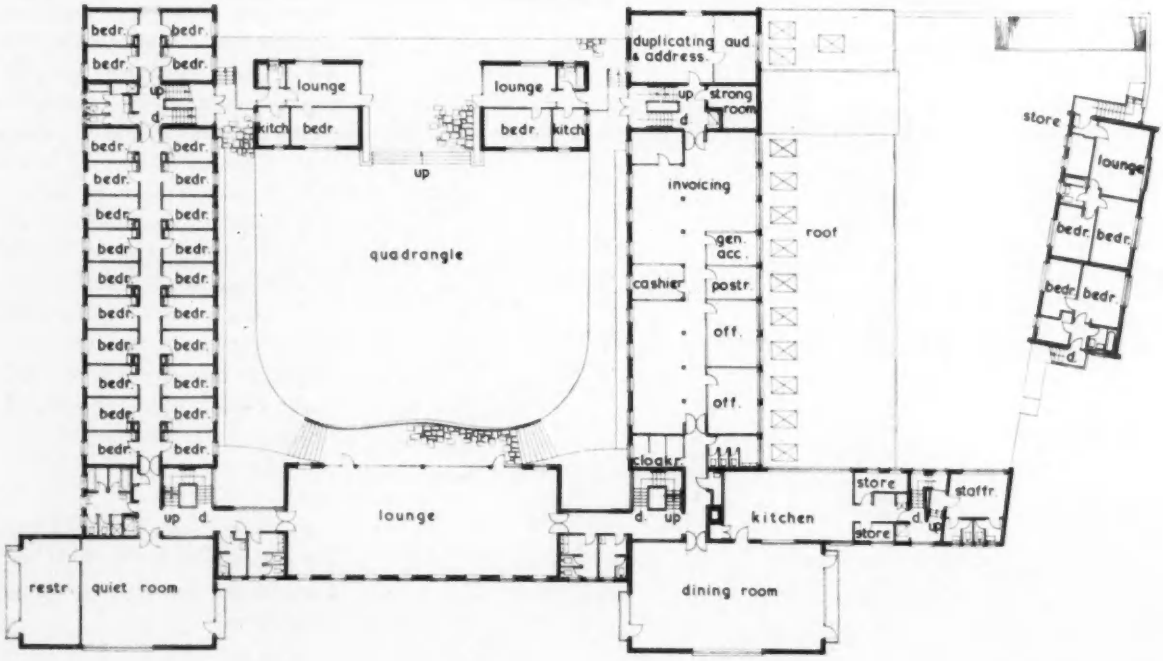
The contract period was 16 weeks. Fabrication of the portal frames took 2 months and 1 month was required for erection.

Methodist Youth Headquarters, London

CHARLES PIKE, FRIBA, & PARTNERS, architects

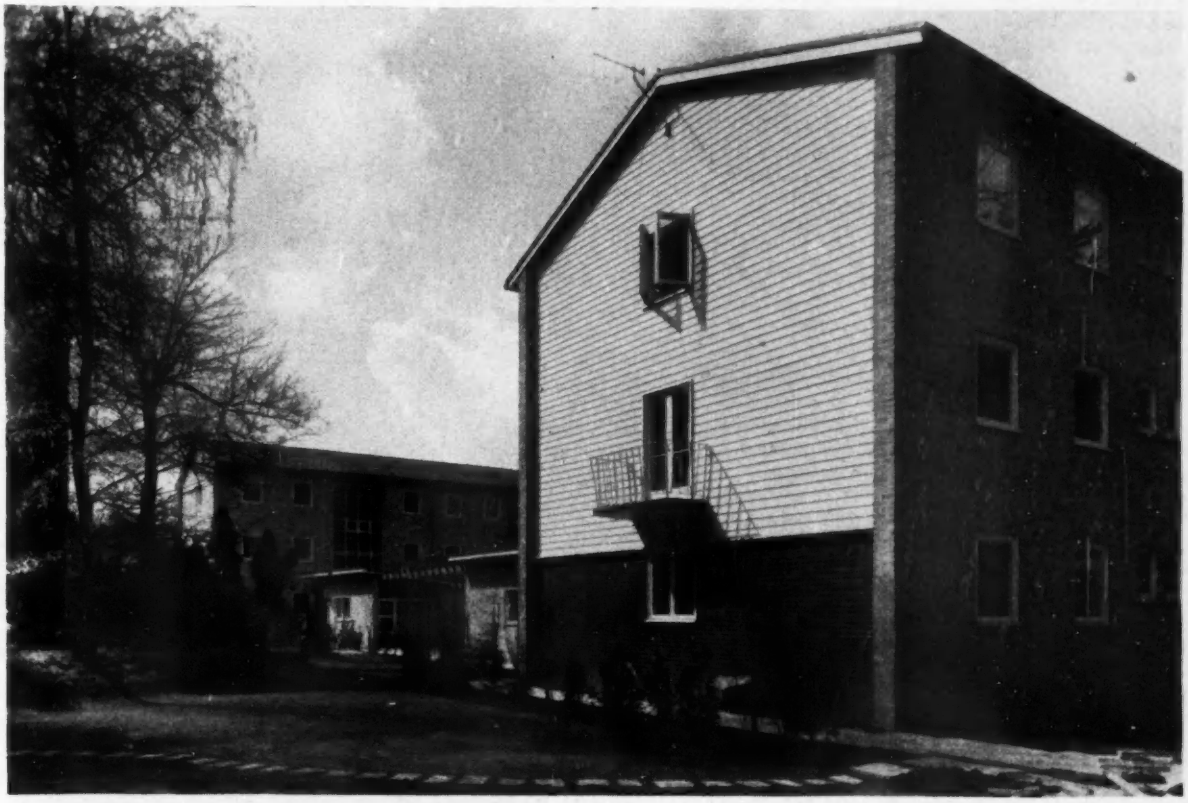


The north block main frontage from Pages Lane

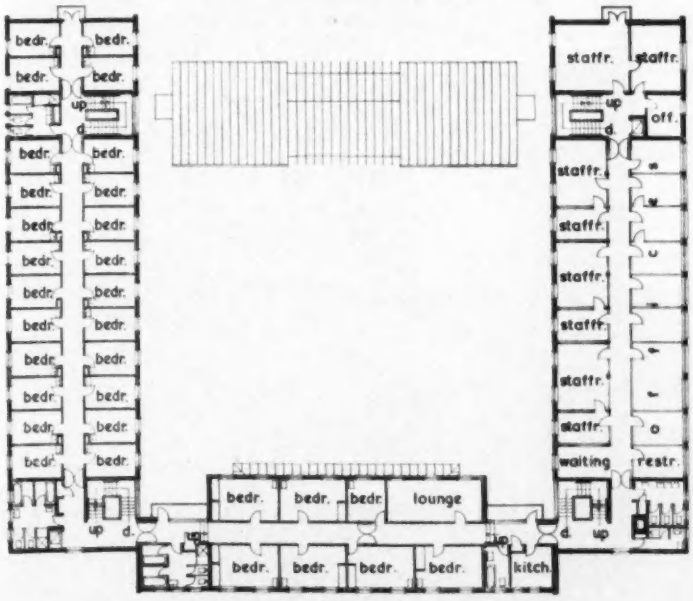


BARE, LEANING & BARE, quantity surveyors

GEE, WALKER & SLATER, LTD., general contractors



Staff bungalows between the hostel and office wings, from south-east



GROUND AND FIRST FLOOR PLANS
Scale : 1 in. to 40 ft.

CHESTER HOUSE, Muswell Hill, N10, is the new headquarters of the Methodist Youth Department, a national body who are responsible for the issue of lecture material, Sunday School prizes, and visual aids, in addition to administration of the youth movement throughout the country and organised tours abroad.

In addition to offices and packing and despatch departments, the new building contains a hostel for 90 young people in single and double room accommodation. A main lounge, games room, quiet room and ladies' rest room are provided for social recreation, and the dining room caters for 100 persons. Ancillaries of laundry, ironing room and drying space are provided in a central position.

The buildings are planned around a rectangular garden court. The main frontage faces north and the two principal wings run from north to south. One wing contains offices and the other houses the hostel bedrooms. The main lounge in the north block opens on to a wide terrace in the central court. The enclosure is completed on the south side by two staff

bungalows. A separate service courtyard, approached through a covered way, contains lock-up garages with staff quarters over.

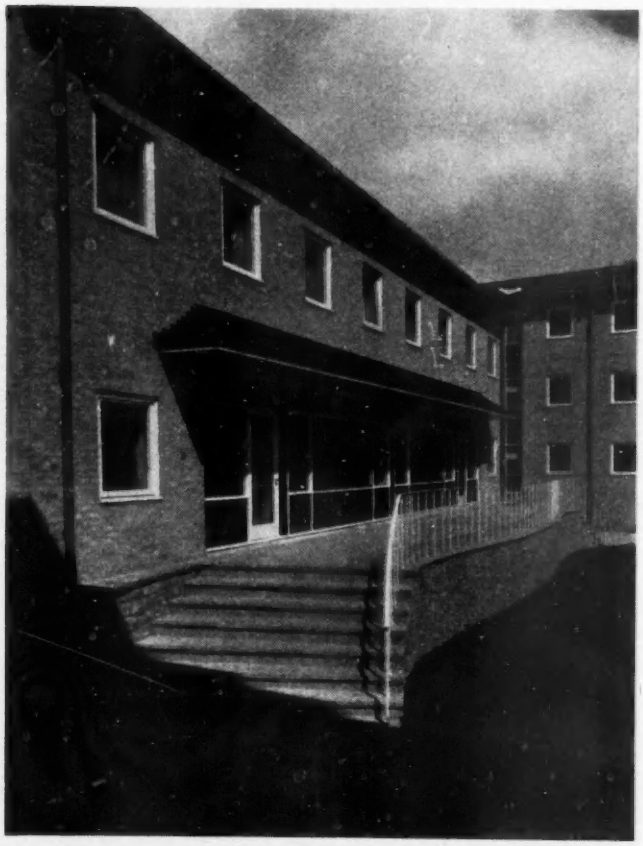
The dining room and kitchen are grouped with the communal rooms of the hostel at ground floor level in the north block. The lower ground floor contains the games room and laundry facilities, with a boiler room, stores and despatch department underneath the office wing.

The structure is reinforced concrete framework clad with 11 in. cavity brick walls. The elevational treatment is a warm yellow brick with white painted double glazed windows, projecting cornices with painted soffits, cedar boarding, Kentish rag walls at entrances and copper roofing.

The study bedrooms have maple block floors, fitted cupboards and table tops and are gaily decorated with modern curtains and divan covers.

Lounges and dining rooms have sapele block floors and linoleum laid in squares ; cheerful colours have been used throughout. The architects were also responsible for the selection of the furniture and fabrics within stipulated cost limits. The offices have plastic floor tiles, 'Stramit' partitions and emulsion painted plaster walls. Central heating for the whole building is provided by an oil-fired boiler.

The contract commenced in August, 1958, and was completed in March, 1960. The hostel was completed two months ahead of schedule and the offices six months inside the contract period. The cost was £193,000.

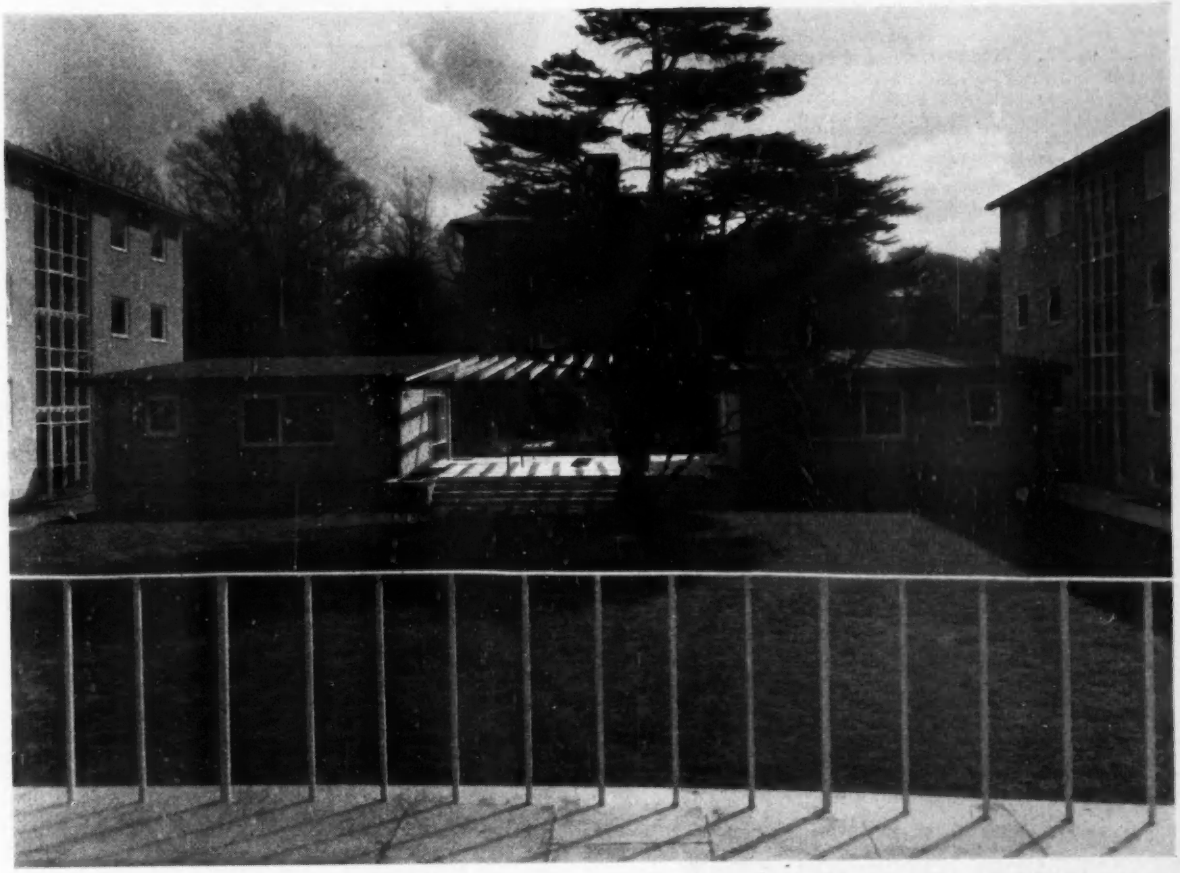


Terrace to the hostel main lounge

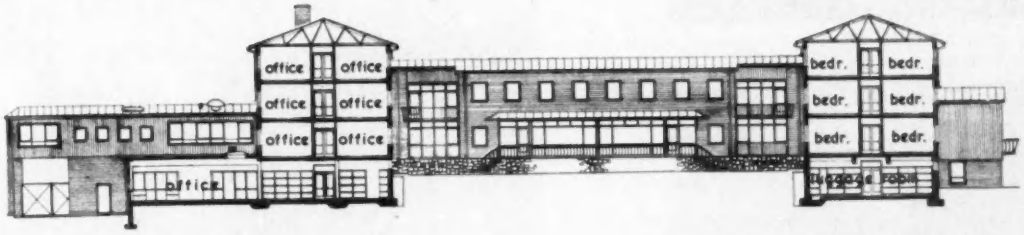
Covered way to the service courtyard

Sub-Contractors & Suppliers:

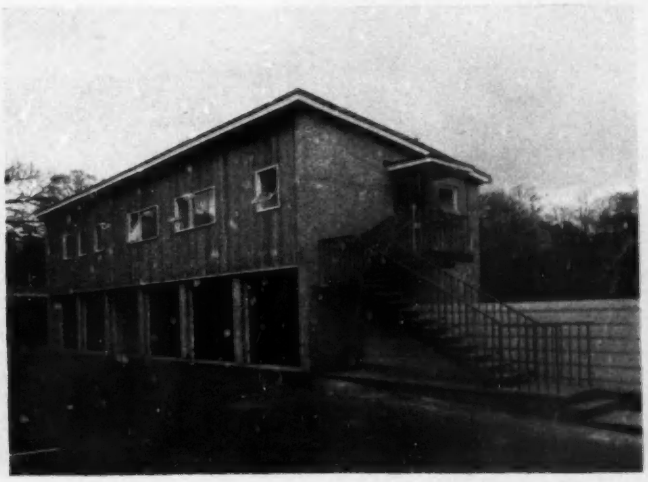
Mechanical services: A. G. Manly & Co. Ltd.; *electrical services:* Barlow & Young Ltd.; *sanitary fittings:* Stitsons Sanitary Fittings Ltd.; *asphalt tanking:* Val de Travers; *lino tile paving:* E. J. Elgood Ltd.; *cement glaze:* Cement Glaze Ltd.; *woodblock flooring:* Hollis Bros.; *plastic tile paving & composition paving:* Armstrong Cork Co. Ltd ; *lift installation:* Hammond & Champness; *facing bricks:* R. Y. Ames Ltd; *foundation stones & coat of arms:* Arthur J. J. Ayres; *copper roofs:* Brodericks Insulated Structures Ltd.; *rooflights:* Williaam J. Cox; *kitchen equipment:* Hobart Manufacturing Co. Ltd.; Radiation Group Sales; *sliding windows:* P. G. Allday & Co. Ltd.; *paropa roofing:* Frazzi Ltd.; *sliding door gear:* E. Hill Aldam & Co. Ltd.; *up and over door gear:* Acrow (Engineers) Ltd.; *roller shutters:* Dennison, Kett & Co.; *timber windows:* Tomo Trading Co. Ltd.; *re-constructed stone cills:* Cooper Wettern & Co. Ltd ; *metal windows:* Ideal Casements (Reading) Ltd.; *internal telephone & public address equipment:* English Telephone Co. Ltd.; *strongroom door:* Chubb & Sons Lock and Safe Co. Ltd.; *sanitary incinerator:* William Sugg & Co. Ltd.; *refrigerators:* Pressed Steel Co. Ltd.; *patent collapsible shelving:* Bruynzeel Wood Products Co. Ltd.; *drying racks:* Colin Tranfield Ltd.; *balustrading and handrails:* C. Jenner & Son Ltd.; *w.c. partitions:* Flexo Plywood Industries Ltd.; *ironmongery:* Comyn Ching & Co. Ltd.; *glass louvres:* Crittall Manufacturing Co. Ltd.; *patent office partitions:* Stramit Boards Ltd.; *fire protection equipment:* The Pyrene Co. Ltd.; *cycle racks:* Le Bas Tube Co. Ltd.; *sanitary bins:* Robert Bailey & Son Ltd.; *lightning conductors:* R. C. Cutting & Co. Ltd.; *reinforcement (concrete):* Rom River Reinforcement Service; *shelf brackets:* Savage & Parsons Ltd.; *metal gates and plant stands:* William Pickford Ltd.; *storage filing cabinets:* Sankey Sheldon Ltd.; *acoustic ceiling:* Gyproc Products Ltd.; *name plates and card holders:* Dale's (Lettering) Ltd.; *garden landscaping:* Peter Adams (Garden Landscapes) Ltd.; *curtain tracks:* Silent Gliss Ltd.; Tidmarsh & Sons; *furniture & furnishings:* Hill, Gordon Contracts; *standard lamps:* Richard Chick, Ltd.; *external lettering:* Drakard & Humble Ltd.



Internal garden court, toward the staff bungalows



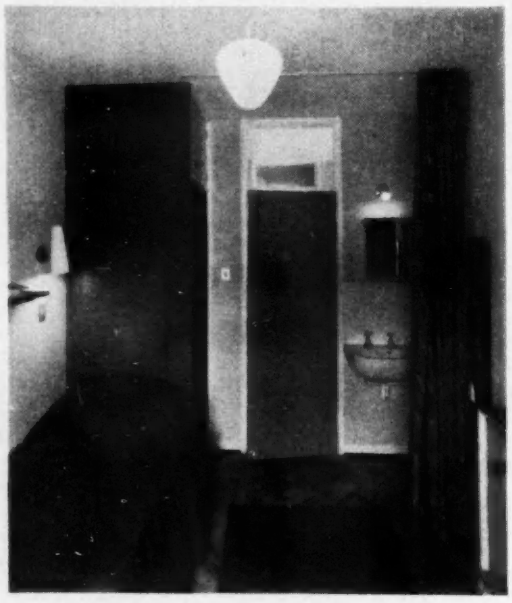
EAST WEST SECTION
Scale: 1 in. = 40 ft.



Staircase in the main block, and lock-up garages with staff quarters over

Methodist Youth Hostel

1, single bedroom towards basin and wardrobe fitting. 2, single bedroom towards window and desk fitting. 3, a double bedroom. 4, quiet room and window seat, from staircase. 5, dining room, seating 100 persons. 6, hostel main lounge, which has access to a terrace in the central court



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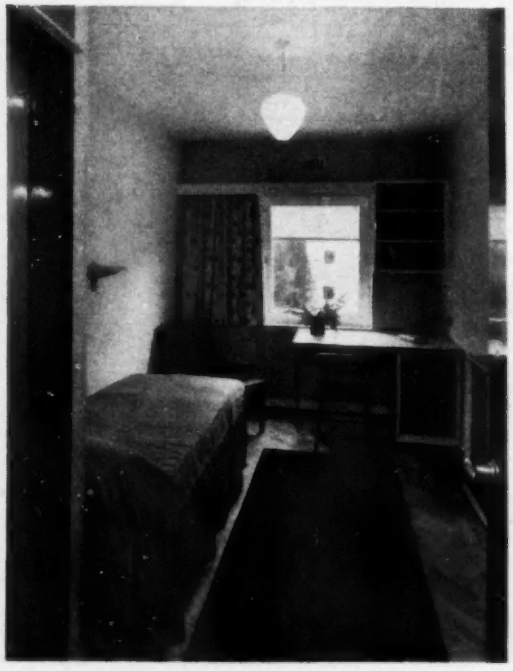

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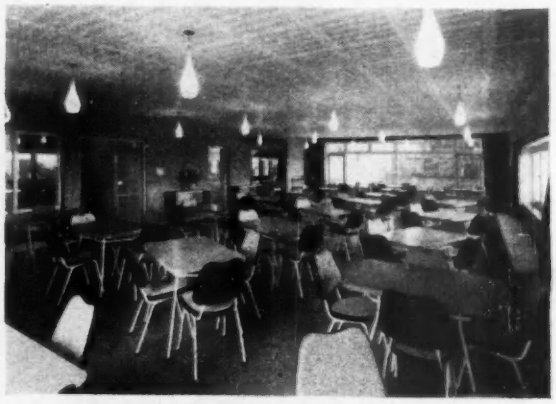

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News of the Week

Opening of Milan Triennale

A WELL - ILLUSTRATED brochure on 'Britain's New Schools' has been prepared by the Ministry of Education to mark the opening last Saturday (July 16) of the 12th Milan Triennale, where the British exhibit is a typical three-class primary school, together with a display in the main exhibition building telling the story of this country's post-war school building programme. In view of the international nature of the Triennale, it is surprising to find that the main brochure is entirely in English, although it is true that an explanatory insert is printed partly in Italian. It might be thought that at least the captions to the excellent illustrations in the main brochure could have been in Italian (and why not French and German also?) as well as in English, as is the custom with Continental literature intended for international circulation.

Britain was represented at the opening ceremony by Sir David Eccles, Minister of Education, and by members and officers of the Nottinghamshire local education authority—whose architect (Mr. W. D. Lacey, ARIBA, AMTPI) designed the exhibition school. The exhibition has been designed by Mr. James Gardner, OBE, RDI. The Italian authorities are including in their exhibition a section devoted to British schools illustrated by photographs of new schools and examples of furniture and equipment used in British schools today.

The school was built in less than nine weeks, and was completed ahead of schedule on July 4 by City Display Productions, Ltd., in association with the Italian firm of IPI, Ltd., with materials and components manufactured in Britain and transported to Milan. The school is built in the CLASP prefabricated system of construction, which consists of standard components manufactured on a programme basis in order to obtain the economic advantages of industrial quantity production.

Planning Consultant for Brighton

AT THE SUGGESTION of the Royal Fine Art Commission Brighton's planning committee are to ask the Town Council to authorise the engagement of an eminent architect as planning and architectural consultant to help in the selection of a suitable scheme for the 11½-acre site fronting West-street and King's-road. The commission have said that the council should formulate a positive planning policy for the whole central area of Brighton before a final decision on development is taken.

Car Parking Convention

'THE PROBLEM OF CAR PARKING' is the theme of a one-day convention to be held at Caxton Hall, Westminster, SW1, on October 6. The Institution of Municipal Engineers, who are organising the convention, have already received a large number of applications from local authority delegations. Papers to be submitted for discussion will include 'Traffic and the Parking Problem,' by Mr. J. L. Beckett, Leicester City Surveyor; 'Control of Street Parking,' by Mr. A. W. Hogg, Westminster City Engineer; 'Roof-Top Parking and Mechanical Parking,' by Mr. Granville Berry, Coventry City Engineer and Surveyor; and a joint paper on 'Parking Problems at Sea-Side Towns,' by Mr. D. J. Howe, Brighton, and Mr. E. O. Baxter, Hastings. The proceedings will be officially opened by Mr. John Hay, MP, Joint Parliamentary Secretary, Ministry of Transport. Application forms, obtainable from the Secretary of the Institution, should be returned to him not later than August 1.

Golders Green Planning Appeal

MR. HENRY BROOKE, Minister of Housing and Local Government, has dismissed an appeal against refusal of planning permission to build offices and flats with garages on the site of Golders Green Hippodrome and 5 and 7 North End-road, London, NW11. The appeal was by Match and Co. Ltd. against refusal by Hendon Borough Council, acting on behalf of Middlesex County Council. A public inquiry was held on May 18.

The letter giving the Minister's decision says: 'The Minister notes particularly that the site is allocated in the development plan for "civic, cultural or special use as a theatre" and he is not convinced that a case has been made out for a proposal so much at variance with the plan.'

Westminster School Appeal

RISING COSTS and the falling value of money have placed such heavy financial burdens upon Westminster School, which this year is celebrating the four hundredth anniversary of its refounding by Queen Elizabeth I, that the authorities have been forced to launch a Quatercentenary Appeal for £250,000. This sum is divided between £50,000 which is needed to pay off the loan for the Science Laboratories, and £200,000 required to re-endow the College and its forty Queen's Scholars, who have become a severe financial drain upon the school's resources.

This is an appeal which all who believe in the original purpose of Westminster School, and its chief object through the centuries—the fostering of intellectual ability regardless of wealth—should be eager to support whether they be Old Westminsters or not. HM The Queen, Visitor to the School, has already contributed to the appeal. Donations should be sent to the Hon. Treasurer, Appeal Fund, Westminster School Society, 17, Dean's Yard, London, SW1. The Mayor of Westminster is making a special request to all citizens of Westminster to make a contribution.

A Contemporary's New Format

LATEST OF THE TECHNICAL PAPERS which have altered their format is our contemporary, 'The Architect and Building News,' which, with its issue of July 6, has abandoned the familiar green cover in favour of a planned changing design, and has also taken some steps to alter its make-up editorial. We wish it success. While on the subject of contemporaries, we regret the recent demise of 'Architecture and Building' which has not survived being taken under the wing of Odhams Press. It is probably true that there are too many building papers, but 'Architecture and Building' was not one which could be improved by being taken out of circulation. Under Greenhalgh, Harry Johnson, Donne Avenell and latterly Arthur Shannon it had made its mark as an organ of constructive thought.

A perspective of Clare Court, a block of 40 flats with garages now under construction as an extension to the pre-war block in Tavistock-place, WC1. The extension incorporates a licensed bar. The architect is Mr. H. Owen Luder, ARIBA; the quantity surveyor, Mr. C. R. Wheeler, FRICS; and the general contractors, Sir Robert McAlpine & Son Ltd. The contract cost is approximately £110,000 and completion is scheduled for mid-1961

Prof. Nikolaus Pevsner's Tour

PROFESSOR NIKOLAUS PEVSNER, the writer on architecture and the history of art, left for Latin America on July 16.

He has accepted an invitation from the Argentinian Interuniversity Institute of Specialists in the History of Architecture, and will give a series of ten lectures at Cordoba University. He will also lecture at the Universities of Tucuman, Rosario and La Plata, and for the British Council in Buenos Aires, Montevideo, Santiago, Sao Paulo and Rio de Janeiro. His subjects will be 'Recent Architecture in England.' 'The Origins of Functionalism' and 'English Cathedrals.'

NFBTE Director to Visit USA

MR. PETER TRENCH, OBE, Director of the NFBTE, is to visit the USA during September to study industrial organisation in contracting and building there, particularly the activities of the Associated General Contractors and the National Association of Home Builders. The visit will last for about a month.

FAS Visit to Rotterdam

THE FACULTY OF ARCHITECTS AND SURVEYORS is to make an official visit to the city of Rotterdam from September 19 to 23. The visit is open to all members and their wives. The programme will include a lecture by the Director of the city's Department for Town Planning and Reconstruction; a conducted tour; several visits to engineering works; and two official dinners. Further particulars may be obtained from the Secretary of the Faculty at 68 Gloucester-place, London, W1. The inclusive cost will be £24.

Future of St. John's, Smith-square

THE Council for the Encouragement of Religious Art has a scheme to restore the church of St. John's, Smith-square, SW, and then to occupy the building as its headquarters.

A detailed survey of the building, built to the designs of Thomas Archer between 1714 and 1728 and for the past 20 years a roofless shell, has been completed by the council's architect, Mr. Marshall Sisson, CBE, FRIBA, and negotiations have been entered into with the War Damage Commission and other authorities. If a satisfactory conclusion is reached CERA are proposing to issue a public appeal for additional finance to provide St. John's with the necessary equipment for staging lunch-hour concerts, dramatic presentations and exhibitions of the visual arts in a church setting.

Colloquiums on Shell Structures

THE International Association for Shell Structures is organising two colloquiums, the first at Delft in the Netherlands from August 30, 1961, and the second in Brussels from September 4 to 6, 1961. The Delft colloquium will deal with shell research and will include lectures and discussions on strength and stability, construction, shaping, and stress analysis. The colloquium in Brussels will cover simplified calculation methods and include those available for various types of curvature. The organising secretary for the first colloquium is Professor Ir. A. L. Bouma of the Department of Civil Engineering of the Technological University, Delft, and for the second, Professor Dutron, 127 Avenue Adolphe Buyl, Brussels 5.

Overhead Road Proposal

PORTSMOUTH'S city engineer, Mr. W. E. C. Chamberlain, and the city development officer, Mr. G. F. Heath, have told the Portsmouth City Council's roads, works and drainage committee that the provision of an overhead road spanning the length of Portsea Island is the best answer to the City's future road congestion problem. The overhead road would bear the main brunt of the traffic in and out of the city and would be closed to cyclists and pedestrians.

The committee agreed that further consideration should be given to the construction of such a highway as part of the long-term proposals for dealing with the City's traffic problems.

School for Handicapped Children

ASSISTANCE is urgently needed by the Valence Special School for Physically Handicapped Children at Westerham, Kent, for the completion of a project to provide all-the-year-round swimming facilities, for swimming plays a most important part in the children's treatment. The work of enclosing the already existing swimming pool, and providing for the heating and purification of the water, has now begun following sanction of a grant of about half the cost by the Kent County Council, and many firms in the building industry have already generously offered to assist by supplying materials at special discounts. The names of all those who help will be recorded on a commemorative plaque, and the headmaster is making a film of the whole operation. The reinforced concrete frame of the building has now been erected, and the children are at present busy on the foundations.

A management committee under the chairmanship of Mrs. M. E. Davis, JP and county councillor, has been set up, and those who wish to help in the project may communicate with her through the school. It is hoped that the work may be completed by the autumn of 1961.

'Cologne Reconstructed'

UNDER the above title, the Cologne Chamber of Commerce has published and circulated through the Tourist Office, Cologne, a well-produced brochure showing the extent to which the devastation of the war has been overcome and the efforts made by the region to recover its economy, as well as indicating its particular prospects. In addition to a good deal of general industrial, commercial and other information, the booklet includes a number of illustrations showing in particular something of the wartime devastation as well as views of new building developments, domestic and industrial.

Coming Events

WEDNESDAY, JULY 27

ARCHITECTURAL ASSOCIATION. — Talks for overseas architects: 'Office buildings in Eastbourne-terrace, W2,' by Mr. Cecil Elsom; 'Two Houses, 1950 and 1960,' by Messrs. Stefan Buzas and Leonard Manasseh.' 36 Bedford-square, WC1. 6.15 p.m.

ART WORKERS' GUILD.—Ordinary meeting: 'Temple Moore and Some of His Contemporaries,' by Bro. S. Dykes-Bower. 6 Queen-square, Bloomsbury, WC1. 7 p.m.

BRS Publications

A FULL LIST of the publications of the Building Research Station has been issued by the DSIR. A supplement containing a list of films produced by the Station is also included. The catalogue lists over one hundred digests, bulletins, research papers and building studies dealing with every aspect of construction. Papers prepared by the Station and published in the technical Press are not included. All publications can be obtained from Her Majesty's Stationery Office.

Appointment

MR. C. E. BROWN, deputy borough engineer and surveyor, Warwick, has been promoted borough surveyor and engineer to succeed Mr. H. S. Brown.

Professional Announcement

MR. CLIFFORD CULPIN, OBE, FRIBA, chartered architect and planning consultant, of 39 Doughty-street, London, WC1, has taken into full partnership MR. ROLAND ROBERTSON, ARIBA. The style of the firm has been changed to CLIFFORD CULPIN & PARTNERS but the address remains unchanged. MR. L. HOBART, ARIBA, MR. A. SARGEANT, ARIBA, and MR. P. VALLIS, ARIBA, continue as associate partners.

A Hundred Years Ago

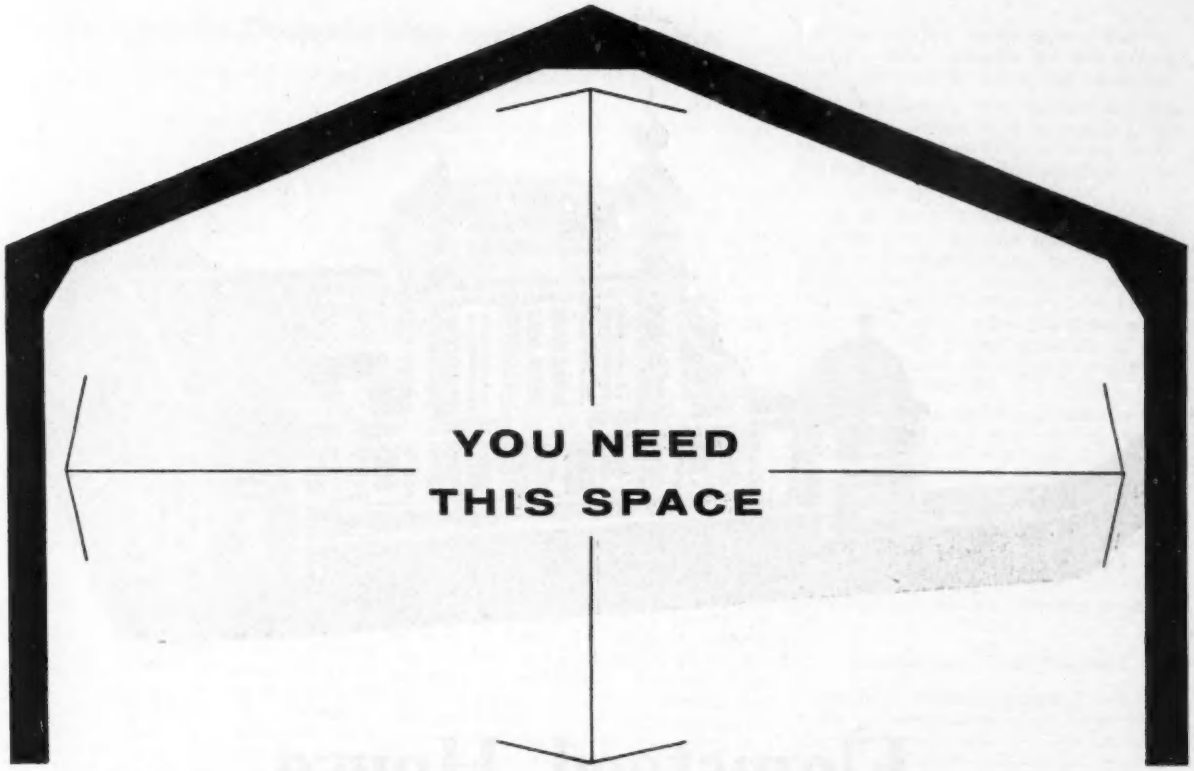
From The Builder of July 21, 1860

UNPICKABLE AND GUNPOWDER-PROOF LOCKS. —An invention, patented by Mr. Price, of Wolverhampton, which we have lately seen, seems to be an effective one, and well adapted to the purpose in view. It is called the double patent *ne plus ultra* lock, and is warranted unpickable against every mode of picking, and also proof against repeated charges of gunpowder, as two dwts, are said to be the most that can be hammered into it. 'The hardened nozzle,' says Mr. Price, 'prevents the keyhole being enlarged, and the spindle of the knob being case-hardened, and working in a rebate with a shoulder inside, prevents gunpowder being got into the lock-chamber by breaking the spindle.'

Obituary

Arthur Lumb, MBE, ARIBA

WE REGRET TO ANNOUNCE the death of Mr. Arthur Lumb, MBE, DipArch, ARIBA, county-architect-designate to Cumberland County Council. Mr. Lumb, who had spent almost the whole of his professional life in the service of the Cumberland CC, having joined the County Architect's staff in 1938, had only a fortnight before his death been appointed to the senior post; he had been Deputy since 1954. He was the current chairman of the Cumberland branch of the Northern Architectural Association.



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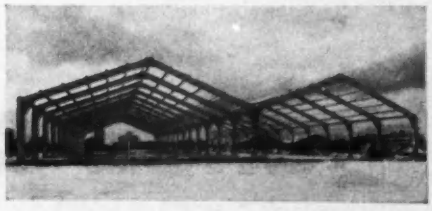

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Commons Debate the Land Question

Regional Planning Advocated to Secure Better Use of Resources

THE HOUSE OF COMMONS on Monday debated the land question on a motion by the opposition for whom MR. GAITSKELL said that despite efforts to help areas of heavy local unemployment the drift of population south continued. In 1949 London, the south-eastern, and southern regions contained 30 per cent of the population of Britain; by 1959 they accounted for half the country's total increase in population. London, the south and the Midlands had a net gain in insured workers of 167,000 between 1951 and 1958—all at the expense of other regions. It had been estimated that new office space approved by the London County Council between 1948 and 1958 provided employment for nearly a quarter of a million people in the central area alone—an increase of 25,000 office workers.

'Piecemeal' Private Development

The redevelopment of cities and city centres was not being properly planned and carried out by the local authorities, but was taking place piecemeal by private developers. There had been, especially in the last year or two, a sensational and shocking rise in the price of land. As a result, huge fortunes had been made overnight by landowners and speculators at the expense of local authorities and the public generally. The Government's failure to control this could be traced to a doctrinaire dislike of state interference and planning, except in the most negative fashion, combined with a determination to give back to private enterprise the right to own and profit by community development.

What was to be done in the face of this situation? The Opposition were utterly opposed to any building on the green belts, and he was glad that the Minister had made his position clear on this. But did the Minister really think that he was going to be believed? Even if the Minister stood firm on this, what was the policy about building on the other side of the green belts? Green belts should be the start of the countryside, not a ditch between subtopias.

It had been estimated that the building land required in the next 10 to 15 years to relieve the pressure from the urban areas would be 600,000 acres or 2½ per cent of the rural land. This was not an impossible figure. The real question was not finding the amount of land, but where the land was to be found—where the building was to take place.

There might be some relief to be obtained from building high in the cities, but at the most perhaps one-fifth of the problem could be dealt with that way. The answer stared the Government in the face: it was the building of more new towns. Initiative should come from the central government.

MR. HENRY BROOKE, Minister of Housing and Local Government said that, although Mr. Gaitskell had not suggested restoring the development charge, he had criticised the Government for getting rid of it. This charge had been completely discredited as a remedy.

Public ownership, municipalisation, and threats like that, were an attempt to make nationalisation of the land more palatable, but it would do nothing to bring down land prices. It would simply bring into the market another potential purchaser. It would come nearer and nearer to general nationalisation.

If Mr. Gaitskell was taking the view that it was possible for public authorities to borrow unlimited sums to buy unlimited areas of land, he should consider the effect on the monetary position. The country would not stand for the huge bureaucratic machine that would have to be created. The common sense remedy for high prices was to encourage more land to come on the market, and that was exactly the course the Government were pursuing. There was no truth whatever in any allegation that the total amount of land allocated for building throughout the country was inadequate. There was no need for some form of central independent inquiry into future housing and building needs. The problem was essentially a local one and not a national one.

The Government were not going to let the green belts go, and he would advise people who were still trying to detect loopholes or weaknesses in what he had said about green belt policy to give up their faithlessness, because green belts were going to stay. There was no intention of repeating the urban sprawl on the other side. Any development there would be under close planning control. At present only about 10 per cent of the whole land surface of England and Wales was built up and used for roads and railways and the like. But the increase in population, as well as the inescapable demands of the modern world, meant that before the end of the twentieth century that 10 per cent might be 12 per cent or more.

Approach Should be Regional

The crux of the whole problem was to make sure that artificial land scarcities did not arise. There was no avoiding natural land scarcity when an area was fully developed. What the Government was doing, therefore, was to make sure that not only sufficient land was allocated for building beyond the green belt, but also to encourage the fullest use of land within the suburban areas on the inner side of the green belt. The responsibility for this lay in the first place with the planning authority.

MR. MITCHISON asked the Government if they were prepared to find money for a new town in an appropriate case.

MR. BROOKE said they would, but it was no use talking about this in general terms.

It was quite possible that some densities in some places could be revised upwards. Density increases did not bring down land values. In fact, they put up the price. People would pay more for land for which a higher density was permitted. What increases did was to keep down the need for more land elsewhere.

MR. MITCHISON: 'The Minister has said high prices do not hold up building, but surely they hold up local authority building and put up council house rents. Does he approve of that?'

MR. BROOKE: 'I have said there is a problem here. I know that it puts up costs to local authorities, but I am not going to be led to restoring the position whereby local authorities are able to buy land compulsorily below its market value. Nor do I believe that a policy of that kind would have the slightest degree of support in the country as a whole.'

MR. DONNELLY said that if industry was to flourish, people were to live happy healthy lives, farm land was to be safeguarded, and other national resources were to be deployed, it was essential to have planning. The Conservative doctrine of free enterprise would no longer work in such circumstances, and the Government's dilemma was that they knew this but were not prepared to admit it.

'Ad Valorem' Duty Proposed

SIR COLIN THORNTON-KEMSLEY said that if the Uthwatt theory of shifting values was to be accepted, the development value of land which was refused development permission was not destroyed but was shifted to other land, thus enhancing the value of that land. He therefore favoured a moderate 'ad valorem' duty being levied on the vendors in all future sales of land for development, the proceeds to reimburse the Exchequer for compensation paid to owners of land which was sterilised against building.

MR. A. P. COSTAIN said that the cost of building an ordinary house was 40s. a foot, of a maisonnette 45s., an eight-storey flat 74s. and of a 12-storey flat 83s. If the demand for flats was to be considered, more of the nation's capital would be needed.

Winding up the debate, SIR KEITH JOSEPH, Parliamentary Secretary, Ministry of Housing and Local Government, said the Government were determined to keep the town, town, and the country, country.

There were some good effects to be gained from high prices. They could persuade the country to make full use of the land it had got. Densities used to be too high. Recently they went too low. Now, perhaps, they could strike a happy medium.

There had been evidence that speculators had burned their fingers. There was evidence that people had been buying farmland in the green belts, but now that the Minister had affirmed that there was going to be no housing or other use of the green belts they were going to find it difficult to dispose of that land at the price which they paid for it.

An Opposition amendment to reduce the Vote of the Ministry of Housing and Local Government was rejected by 319 votes to 235—Government majority, 84.

****Other Parliamentary news is on pp. 164-165.*

Rebuilding City Centres

Papers and Discussion at the Civic Trust Conference

A one-day conference organised by the Civic Trust was held at the Middlesex Guildhall, London, on July 15 with the Trust's President and founder, Mr. Duncan Sandys, MP, Minister of Aviation, in the chair. Extracts from the papers given by the principal speakers, and a summary of the discussion, are given below.

OPENING the conference, MR. SANDYS said: 'The central areas of so many of our towns, all over the country, have for one reason or another become ripe for rebuilding. From the standpoint of commercial prestige or civic dignity, the rebuilding of these areas presents us with a challenging opportunity. It gives to us, in the second half of the twentieth century, the opportunity to make our own distinctive contribution to the heritage of the future.

'One thing is certain. Rebuilding is going to take place, during the next decade or two, on a vast scale. The question is whether the result will be something of which we are proud or ashamed. That will depend, to a large extent, on how we solve the problem, which we have come here to discuss.

'The main issue can be defined in one simple question. Should an important central area be rebuilt plot by plot, as and when each individual owner so decides? Or should it be redesigned and reconstructed as a whole?

'The answer will not be the same in all cases. There will no doubt be areas where it is quite satisfactory to leave each owner to work out his separate solution, subject to normal planning controls. There will be other areas where a much more radical solution is needed.

'No Arbiter of Taste'

'From the outset, the Civic Trust has made it clear that it does not seek to set itself up as an arbiter of taste. When we see an important problem in the sphere of architecture or planning, we bring together those people who are most qualified to advise upon it, and we invite them to express their views.

'At the end of the conference we shall not ask you to pass any resolutions. We shall simply prepare an account of what has been said and send it to those who are actively concerned with solving these problems.'

Mr. Sandys then called upon Mr. Henry Brooke, Minister of Housing and Local Government, to speak.

MR. BROOKE said that they were all feeling their way forward on the question of rebuilding our city centres, but that the Piccadilly inquiry had thrown the matter into relief. They could be sure that he was anxious to study everybody's ideas, and he certainly would not run away from the advice of those with a useful contribution to offer.

At the Piccadilly inquiry, Mr. Brooke continued, a lot of sense and a lot of nonsense had been talked. This was the British way of getting forward—talk, talk—but at the right time decisions would have to be made and they would be certain to be controversial. He distinguished between two types of area in city redevelopment—there was the active area, where the value of the site was high and where private enterprise was active, but they must not forget the worn-out type of area where enterprise was conspicuous by its absence, and where the problem was how to get redevelopment at all. The whole question of city redevelopment raised in the acutest form the balance between the public good and private rights.

Mr. Brooke said that in the case of towns facing a decline he believed that if the town centres could be made attractive the whole town might take on a new prosperity. Another factor that could help make towns more attractive was an active clean air policy.

Finally, the Minister said that he did not see his way yet through the problem of multiple ownership, and on this in particular there was a need for fresh ideas.

The Importance of Comprehensive Development

By Peter Chamberlin, FRIBA

BEFORE considering the advantages of comprehensive development it is wise to be clear what is—and what is not—meant by it. It does not, for instance, mean merely a two-dimensional plan plus a good intention. Nor does it mean an indiscriminate sweeping away of all that is old and its replacement by something new, on the principle that anything that is new is, ipso facto, better than anything old. Comprehensive developers—whoever they are—should be concerned with the preservation of that which is worth preserving, should allow for sensitive rehabilitation where this is appropriate and should promote renewal where this is needed, the whole designed to solve the problems of creating a liveable urban environment.

Good comprehensive development calls for immense enterprise on many different levels, and we should be quite clear in our minds what we mean by enterprise. My attitude to enterprise stems from the view that where there is potential wealth in a site or in a situation this should not be creamed off but should be ploughed back into some other part of the town where development is needed but held up for lack of finance.

Spreading the Wealth

Private enterprise when applied to central area development should mean much more than commercial exploitation. Local authority enterprise should imply the duty to consider how the potential wealth in a city centre may best be deployed to support the development of the whole. Enterprise by government departments should not be limited to the rationing of expenditure for a limited objective but should include the obligation to see that, wherever possible, wider purposes are also served.

Comprehensive development provides the opportunity to bring together a number of overlapping interests, to resolve the technical problems involved in a radical way which piecemeal development cannot do, and makes possible genuine three-dimensional planning. This last point deserves underlining. Although we inhabit space in the fullest sense, planning, for the sake of convenience, is almost exclusively thought of as a two-dimensional activity—presumably because it takes place on a sheet of paper and the lines and areas delineated indicate the spheres of influence of a number of adjacent interests whether these be shops, offices, roads, or cinemas.

It is very often possible to create a much more inviting and liveable environment—and to make better use of our scarce land—if some of these interests can occupy space one above the other and not only side by side. It is important to remember that this sort of planning in city centres is only possible in large areas of comprehensive development.

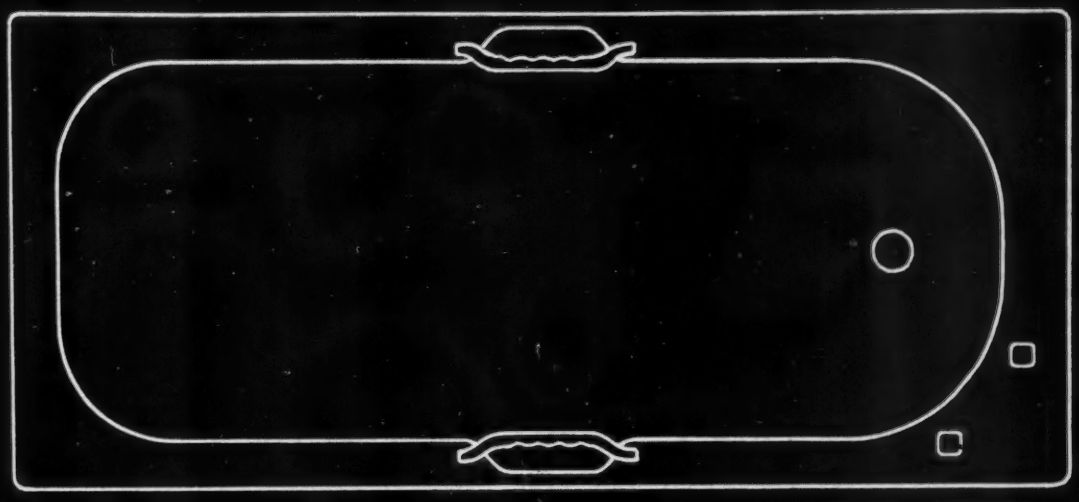
Difficulties of Present Procedure

By W. G. Fiske, CBE, Chairman, LCC New and Expanded Towns Committee

WE HAVE BEEN so used to building outwards from a centre that most city centres are in some state of decay and neglect, and we must be like prudent gardeners who every three years take up their herbaceous plants and throw away the ageing centre and plant afresh. That is why what I say today is not intended to be political in its approach but practical.

Our post-war planning is based on the Town and Country Planning Act of 1947—an Act which put us as a nation in the forefront of planning. It was an Act which was firmly supported like most modern buildings on 'piloti'—in this case two only, Compensation and Betterment. Later on one of these two supports was kicked away and while unlike a building there was no immediate collapse, the planning structure is now so unsafe that it may fall to the ground in ruins at any moment.

That is the crux of our dilemma and until some financial supports are reinstated our planning world is indeed in danger. For example, we have read about a recent inquiry in Piccadilly. In a few years' time the Circus will be improved for traffic purposes by the demolition of the London Pavilion and assets belonging to the public to the extent of about £¾m. will disappear down the drain—perhaps this is not quite right, they will disappear out of the public pocket but will turn up again largely intact in the balance sheets of the neighbouring property owners who will, by reason of this public activity, be



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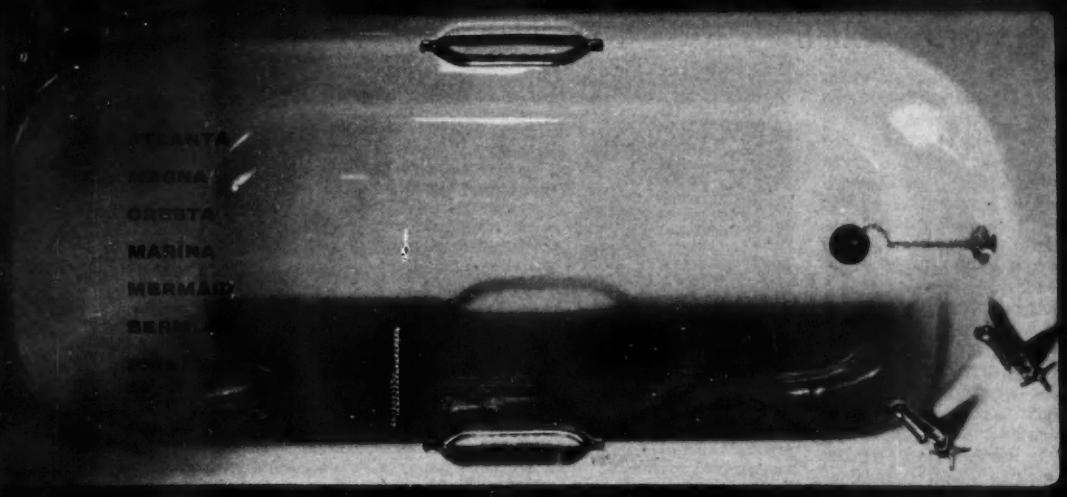

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Most of our difficulties are likely to occur at traffic intersections where it is not enough to buy just the land required for the improvement leaving jagged ends of buildings to be rendered and left. A traffic improvement in a built up area is much more than the mere engineering job of improving its traffic capabilities—it is a complete piece of civic redesigning, and perhaps a greater liaison between the Ministry of Transport and the Ministry of Housing and Local Government is required to bring this about. It must certainly involve the Government. I conclude:

1. Private enterprise thinks in terms of smaller sites of the greatest profitability.
2. Public enterprise can think in terms of larger sites and uses which are essential (i.e., car parking) but not remunerative.
3. Public authorities if they are to participate must be assured that their social investment programme will not be jeopardised.
4. Could a consortium of private enterprise and private finance, the local authorities and the Government do this job jointly, so that the land acquisition, the street improvements, the street closing were done by public enterprise and then the buildings could be erected by private enterprise?

Suggested Improvements in Present Procedure

By B. J. Collins, CBE, FRICS, PPTPI, County Planning Officer, Middx.

I CONSTRUE this conference as a search for the know-how for putting new heart into our towns. We are faced constantly by unenviable choices: unity and coherence v. the freedom that we want designers to have; public control v. free play to private initiative; the latent struggle in a composition between the whole and its parts; the dilemma, sometimes, between preserving existing character or making a clean sweep, or between making a gradual change or attempting it as quickly as possible. Finally, the readiness of private enterprise to invest v. the doubts of public authorities.

The job assigned to me concerns present procedure. I therefore pose the questions: 'are we yet getting the best out of the law and procedure we already have?'; 'is it for lack of powers that we are not succeeding, or could it be something else that is largely lacking, on the part of authorities, or private enterprise, or even public opinion?'

A 'Times' leader-writer (July 9) appeared to have made up his mind! 'What is already substantiated, only too forcibly, is that the existing system is not nearly adequate.' But he said system, not legislation. Can an adequate system be found under present law and opportunities? Ought we rather to 'bear those ills we have than fly to others that we know not of?'

Master Plans

It may be generally agreed that when a city centre is to be rebuilt the key necessity is a Master Plan. So the first question to be asked about present procedure is 'Does it allow for making and using a Master Plan?' My answer is 'Yes.' Then 'Does it allow latitude in the form and conception of it?' Again, 'Yes.'

'Does present procedure allow both public and private enterprise?' 'Yes.' 'Does it provide powers of compulsory purchase?' 'Yes.' 'So does it provide the scope for the essentially positive action which you may consider is needed in this essentially positive operation?' 'Yes.'

A final detail: 'Does it give the chance of accelerating some developments and retarding others, so as to make the transition from old to new practicable?' 'Yes.'

In theory, at all events, present powers come out of this examination fairly well. What then is lacking? Why haven't we got good Master Plans put into force whenever and wherever needed?

Part of the answer to that is the sheer volume of work facing planning authorities, not merely in design, but in evaluation of interests, alternatives and possibilities; in consultation with owners and public bodies concerned; and in sheer grind of administration and negotiation.

Need for a Dynamic

But surely the volume of work has not been the only obstacle. My theory is that even if that be overcome and even if we get improved procedures we shall not have found the touchstone unless we recognise the need whenever a city centre is to be rebuilt for some real dynamic.

Let me try to summarise the aims in central area redesign:

(a) A certain unity or coherence, in which the parts add up to a good whole, fitting the town centre for its job, and making a visit there a pleasure.

(b) Safety and comfort as regards traffic, ease of getting there, room to move there, and accessibility of the points one wants to reach there.

(c) Good art both in layout and architecture, making the place beautiful in its fashion.

But a Master Plan needs a master planner behind it and if that role is not fulfilled by somebody or other nothing good will come of the plan. In short, my theory is that the dynamic is more important than the method and procedure.

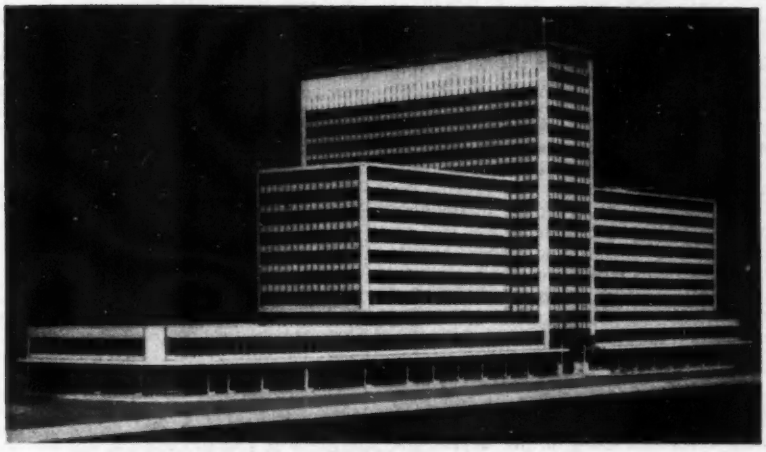
Can this conference fasten on any principles as to where in various circumstances this initiative ought to be taken? At present we get counties and boroughs leaving it to each other. Or we get confusion between authorities and private owners. They each leave the catch to the other or else they collide and drop the catch between them. Yet city centre rebuilding should not be unremunerative: my essentials are (a) a Dynamic, (b) a Master Plan.

I imagine that we have all got beyond thinking a Master Plan should firmly postulate details of building. I suggest there are six elements which have become more interdependent than ever before, and which it may be the function of Master Plans to interweave in three dimensions. These are: Buildings and Space; Walkways and Concourse; Roads and Parking Space.

You may consider that a Master Plan which settles these things, together with a scheme of phasing the work, will have done its job. Phasing is immensely important because this is a heart operation, and the patient has got to be kept alive during its progress.

Whether you think that a wide use of compulsory purchase and special sources of finance are indispensible for city centre redevelopment, I hope other speakers will elicit from you. You may consider (as I do) that compulsory purchase ought rather to be a last resort.

Our thirst in the Civic Trust is for good design and efficient building and if we



A model of the new head office which Esso Petroleum Co., Ltd., will start to occupy in the autumn of 1961. A long-term lease of this new building, situated on an island site with a frontage of about 500 ft. to Victoria-street, SW1, close to Victoria Station, has been negotiated by the company with the Land Securities Investment Trust, Ltd. It comprises 235,000 sq. ft. of office accommodation in a 16-storey tower and two 9-storey wings. On the ground floor, facing Victoria-street, there will be shops. The building, which will be faced with granite and Portland stone, has been designed by Messrs. T. P. Bennett and Son. The general contractors are Taylor Woodrow Construction, Ltd.

cannot get it even in the hearts of our towns

'What will there be to remember
Of us in the days to be?'

The Problem of Divided Ownership and the Financial Burden

By Henry W. Wells, CBE, FRICS, FAI, Chairman, Hemel Hempstead New Town Corporation

IN THE FIRST PLACE I am a little sorry that we are not discussing today the whole problem of urban renewal. It seems to me that whatever administrative or statutory solution is evolved for dealing with the central areas should also have regard to the general problem of urban renewal and not just be limited to central commercial areas.

The redevelopment of a central area, or indeed any part of any town, ought generally to be profitable but will not always be so even in the long term. The determining factor is the cost of acquiring the area. And the determining factor in the cost of the acquisition is the nature and intensity of the use to which the land and buildings in the area are being put at the time of acquisition. The most intensely built up and used areas are therefore by and large the most costly to purchase and the least profitable to redevelop. But these areas are generally those which are most urgently crying out for comprehensive redevelopment, but are least likely to be tackled because redevelopment may not be profitable.

A Land Corporation

I believe we could go a long way towards solving these problems if we could invent a device which enabled the acquisition cost of expensive areas to be pooled with the less expensive areas. Such a device might be:

(a) The establishment of a government corporation through whose hands all land compulsorily acquired passes. For want of a better title I call this the Land Accounting Corporation (LAC).

(b) Local authorities would operate their statutory powers of acquisition as at present empowered and subject to the present central government checks.

(c) The cost of the land would be paid by the LAC, the District Valuers negotiating the prices as at present. The LAC would have no power of compulsory acquisition, but it would temporarily hold land compulsorily acquired by local authorities.

(d) As and when it was required for redevelopment, land would then be made available to the local authority or to private enterprise, or to the government departments if they are involved, on the basis of its value as determined by reference to the redevelopment plan.

(e) I think that such a body should have its powers limited to the acquisition of land at the compulsory purchase price and the re-selling of it at market value, based on the redevelopment plan. But it is important that it should be able to carry the loan charges on the acquisition costs as an accumulated deficit if necessary until the land is required for redevelopment.

The principal advantages of a scheme such as I have suggested would be:

(a) The profitable developments can, to some extent, help finance unprofitable ones—which in the public interest may be as, or even more, desirable.

(b) The temporary heavy burden of loan charges on acquisition costs do not fall on the rates, but are carried by the LAC until redevelopment takes place.

(c) It does not injure local democracy, but leaves with the local authority the responsibility of using compulsory powers and re-planning the area—but not necessarily the actual development.

(d) It enables private enterprise to play a full part.

Finally, if such a scheme were adopted it would enable some of the profits from central area redevelopment to be used towards financing 'urban renewal' generally.

'The Third Method'

By T. S. Dulake, FRICS

THE THIRD METHOD of securing comprehensive redevelopment put forward in the conference report [briefly, purchase of the area compulsorily by a local authority and resale to a suitable private development company or companies] is designed to overcome the practical difficulties brought about by the Piccadilly inquiry without provoking political contention. This approach, it seems to me, holds out the best hope in present circumstances of getting redevelopment carried out on an adequate scale in those central commercial areas where it must involve large sums of money.

What I have in mind is the setting up of land purchase and disposal trust companies—one for each large scheme of commercial redevelopment in a highly valued area.

The trust deed or articles of association would provide for the payment of fees to the trustees, who would be men experienced in the practice of redevelopment, and to consultant designers; but the trust itself would be a non-profit making body.

The first step would be for the trust to reach agreement with the local planning authority on the area to be redeveloped.

The local authority would then designate this area for compulsory purchase, and the trust, with the backing of these powers, would acquire all the sites at pre-scheme value. It would commission a three-dimensional scheme for the redevelopment of the whole area, and it would sell the reconstituted sites to the developer, or consortium of developers, that made the highest bid, subject to covenants to build in accordance with the scheme.

Exchange of contracts.—There would be no need for the land to be conveyed from the original owners to the trust and then from the trust to the developers. Neither, I think, should it be necessary for the trust to put up any purchase money. Its contracts with the original owners and with the developers could be exchanged on the same day. But it should be open to the trustees to invite investors (including the local authority) to subscribe whatever amount might be needed to tide over any interval between purchase and disposal.

Rights of owners.—The basis of payment to investment freeholders would be current market value.

Rights of lessees.—Displaced lessees, together with the owner-occupiers of sites too small or too awkward to be economically redeveloped, would have the first refusal of suitable tenancies in the new buildings at market rents.

Disposal of surplus.—There remains the question of what should be done with the surplus that would be left after the payment of such prior charges as the trust's expenses, the profits of participating owners and investors, and the cost of the road works and public amenities specified in the plan. I assume—and here I dissent from the view expressed by Mr. Wells—that any large-scale scheme of redevelopment in a central commercial area would be bound to yield a substantial surplus: otherwise it would not be undertaken. In my view the remaining surplus should go to the local authority.

Discussion

MR. C. D. BUCHANAN, ARIBA, said that the papers delivered had shown that over much of town planning the real difficulties were concerned with finance and management rather than with planning techniques. The exception to this was road traffic, where many of the technical problems remained unsolved.

Some people spoke as if the traffic problem was solely that of the private car, but this was not so. The great intensity of use in urban areas had been brought about by commercial vehicles. It was his hunch that people had taken the car to their hearts—indeed, there was no doubt that the motor car was a smashing success in every sort of way! He could not see anything else on the horizon to challenge these 'murderously destructive' machines.

Continuing, Mr. Buchanan said that he did not think that public transport was on the way out, but he did think that the public would demand towns that could take cars. The motor vehicle had killed dead the traditional city street, and turned it into a 'stinking, automobile drain.' What was needed was a new arrangement of buildings and access that would give a better result altogether. Varying level circulation had great possibilities; the fact was that the problem posed by the motor car in urban areas was an architectural problem in the widest sense.

He could only see hope through comprehensive redevelopment; there was no hope in piecemeal redevelopment. The tide of redevelopment was flowing strongly, and we needed to harness it to achieve the best results.

MR. RICHARD EDMONDS (chairman, LCC Town Planning Committee) said that the Ministry of Transport's grants for dealing with road intersections were insufficient to cover the cost of the redevelopment that the construction of modern traffic intersections required, and consequently a lot of ragged edges were left. In the case of the Edgware-road flyover the deficiency was estimated at £700,000, and this was just one of 33 such intersections with which his authority would have to deal. He suggested that Professor Abercrombie's idea that there should be a super overall planning Minister was long overdue.

MR. T. MEFFEN (chairman, Coventry Planning Committee) said that in replanning its city centre Coventry had been helped not only by the blitz but by the fact that before the war the city had already drawn

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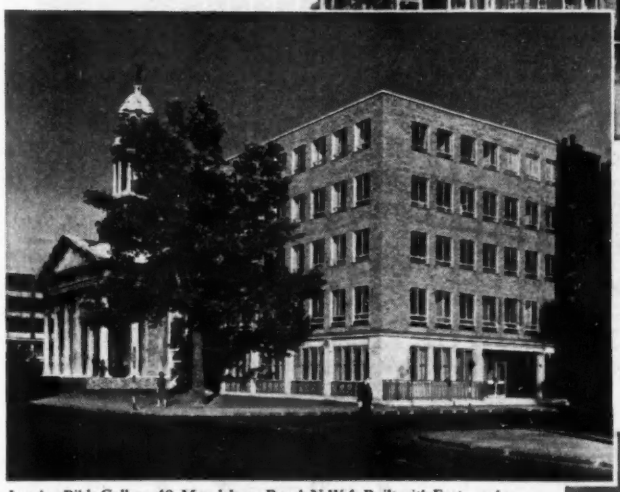

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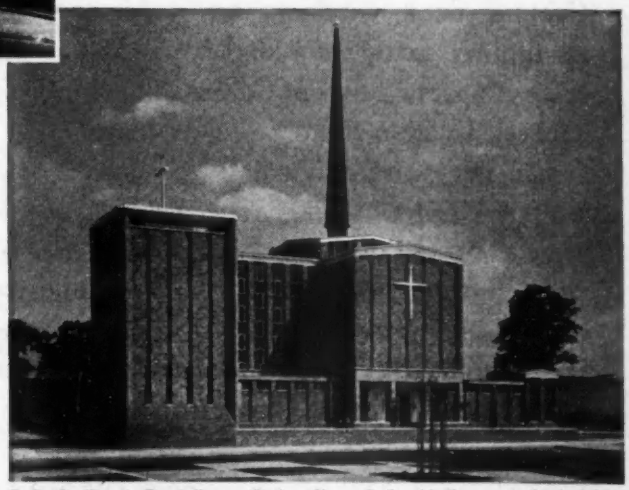

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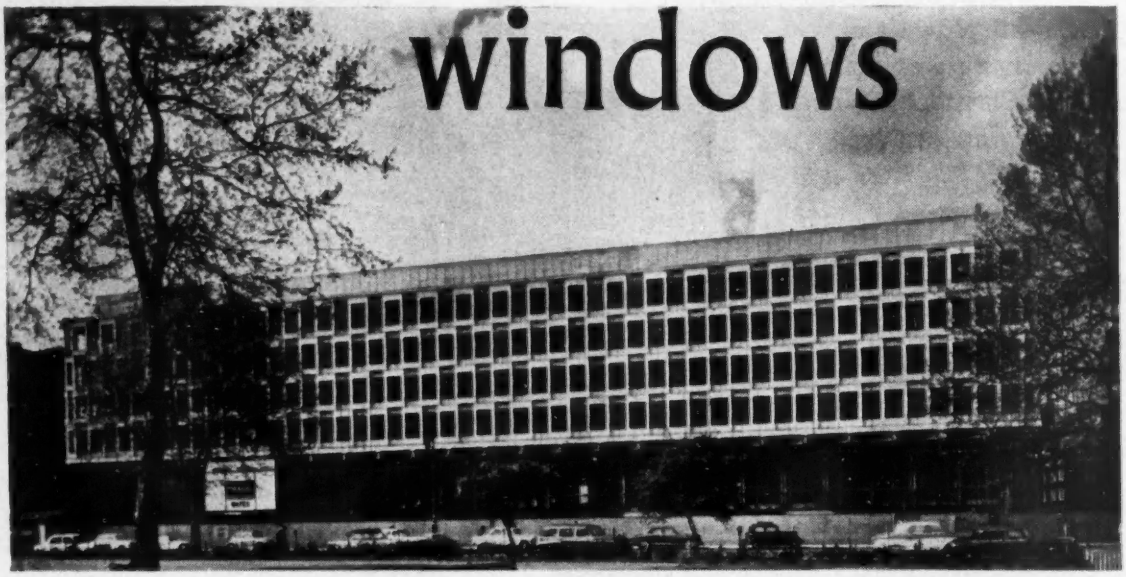

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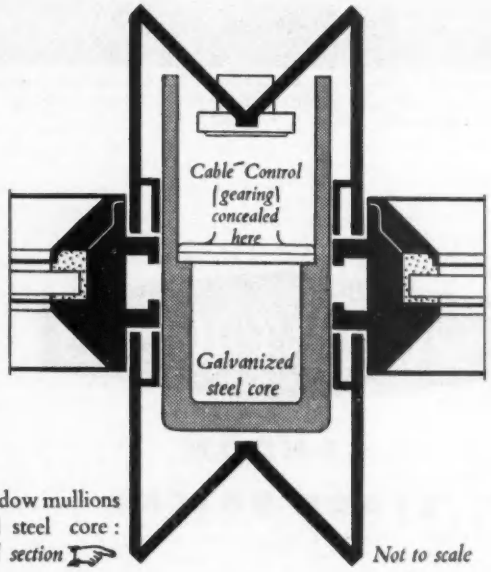

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up a plan for the redevelopment of the central area.

MR. T. D. SMITH (chairman, Newcastle-upon-Tyne Planning Committee) said that there was a danger that the progressive authority which attempted to solve its own problems would defeat its object by attracting to itself more traffic from the neighbouring unprogressive towns; he therefore considered regional planning a 'must.' He also suggested that the professions had a big responsibility to the public to criticise their own members' designs to help people to get the kind of buildings they wanted.

MISS JANE DREW, FRIBA, said that the conceptions of zoning, and two-dimensional planning, had been useful for a time but that now we were pinned down by them. The Piazza at Venice was the sort of 'out-door drawing room' that every city needed. Planning from now on, she emphasised, must be three-dimensional.

LORD CONESFORD (formerly Parliamentary Secretary, Ministry of Town and Country Planning), said he had always held it as axiomatic that it was absolutely impossible to separate the saving of the countryside and making our cities pleasant to live in; we would either save town and country together or we should save neither. We must retain the town as a pleasant place not only in which to work but to live.

Continuing, Lord Conesford said that he did not believe that the motor car was the only thing that should be allowed to increase, while everything else was restricted. He proposed three solutions to ease the traffic problem: 'Don't destroy the dwelling areas near the centre of our cities; don't destroy highways by parking; there are certain places where the motor car should not be allowed to go.'

A final principle to observe was: 'Whatever the problem is, try to solve it without the destruction of any good thing.'

DR. BARNETT STROSS, MP, said that in redevelopment schemes the great problem of local authorities was that they could not wait for some years for a return on their money; they had the problems of annual accountability and avoiding additions to the rates. If Development Boards were set up to help the local authorities acquire the land they needed for redevelopment he suggested that the boards should establish research departments. He would like to see some of the best young men, as they qualified at schools of architecture, joining the research departments to enable the boards to give the local authorities the best possible advice.

Public Transport in USA

PROFESSOR JOHN GRACE (Tulane University, USA) said that in certain parts of the eastern United States public transportation systems were actually dying out owing to the impact of the motor car. In his opinion, if we were going to achieve anything in redesigning our cities we would have to use the architect to design in three dimensions, if not in four—all old cities had a sort of time element in their renewal.

MR. G. GRENFELL BAINES, OBE, FRIBA, said some clear thinking was needed on the question of 'exploitation.' The fact was we were all exploiting each other, and seemed to be doing very nicely out of it!

He believed that if we could have private and public enterprise in partnership they were more likely to employ the best designers and administrators. We had to solve the problem of bringing lots of small people together to achieve comprehensive redevelopment. In regard to the motor car, he was an advocate of ruthless segregation.

MR. S. G. WARDLEY (city engineer and surveyor, Bradford), said that Bradford was going ahead with the redevelopment of the city's centre, and had been able to do this as a result of powers obtained some years ago to enable them to buy up the land in the city's centre. They had been able to persuade developers to invest in the scheme, over which they exercised a policy of leasehold control. He felt that the problem of redevelopment was soluble and that local government possessed the machinery.

MR. LIONEL BRETT, FRIBA, agreed with the remarks of Mr. Wells and Lord Conesford on the dangers of attempting the rebuilding of our city centres in isolation. He was interested in the means suggested by Mr. Wells whereby the better areas could help pay for the poorer.

He thought that we must on the whole loosen and reduce the high density at the centre of our cities and encourage the growth of new high density areas further out. Spreading the load in our cities in this way was, he suggested, the only answer to traffic congestion and civilised living.

CLLR. MRS. E. DENNINGTON (vice-president, LCC New and Expanding Towns Committee), who supported Mr. Wells's proposal for the setting up of a Land Accounting Corporation, said that Piccadilly was not a planning problem—we had competent planners for this sort of undertaking—but a problem of land ownership and finance.

MR. E. H. DOUBLEDAY (county planning officer, Hertfordshire) said we had not yet faced up to the question of land use control, and this was a grievous omission from the Civic Trust's report which they had before them today. The Ministers of Housing and Local Government and Transport should set up and co-ordinate a team to work with the proposed Land Accounting Corporation to study the technical developments that were so important in solving the traffic problem. 'We should take time by the forelock and get started right away,' he declared.

Summing Up

Summing up the conference, SIR WILLIAM HOLFORD, PRIBA, said that in the discussions 'we have come awfully near, in our curious English way, to showing up where the shoe pinches in a number of places.'

The first thing to be done now was to find some way of balancing out profitable and unprofitable development, and the conference had canvassed some of the ways by which a marriage could be arranged. Mr. Wells, in his suggestions for a LAC, had put forward an important idea, which must obviously be followed up. This was a problem that had got to be faced, and it was no good the Minister or the Government burking it.

There was a general feeling, Sir William continued, that you cannot stop traffic coming into city centres, but that at the same time you cannot give priority all the time to the motor car. The big problem was to obtain co-operation between local authorities, Government departments and the public in looking at the problems. Traffic was undoubtedly the biggest technical problem.

Finally, Sir William described the rebuilding of our cities as the big task of peace, but he reminded them that planning meant differentiation as well as uniformity in the way they did things.

Building in the City

Common Council Reject Fenchurch-street Station Office Block Proposal

THE CITY OF LONDON'S Court of Common Council at their meeting on July 14 refused permission for the erection of an office block at Fenchurch-street Station. The Court passed a recommendation of their Improvements and Town Planning Committee that the development, in accordance with plans submitted, should be refused.

In their reasons for the refusal, the committee stated that the site of the station was zoned for 'railway operational purposes' and the introduction of offices—other than those ancillary to the operational undertaking—would be contrary to the policy of restricting office development in the central area to sites which are already zoned for office purposes.

Architects for the rejected scheme are Messrs. Clyde Young and Bernard Engle, of 8 New-square, WC2.

MR. A. J. OSBORN moved the reference back of the refusal for the redevelopment at Fenchurch-street station, but after hearing the reply of the chairman of the Improvements and Town Planning Committee, Mr. Arthur Benjamin, he withdrew his motion.

Mr. Osborn said he was not happy about the refusal. He submitted it was a rather curious attitude, because if the Transport Commission themselves were to apply for such development they would be allowed to erect offices, as they had been at Cannon-street, Holborn-viaduct and Moorgate. The Fenchurch-street area was one where office accommodation was urgently required.

And Mr. Osborn added: 'You talk about traffic congestion but what better way is there to reduce it than by having your offices on top of a railway station?'

MR. BENJAMIN, in his reply, said this recommendation followed a settled policy. Mr. Osborn was not right when he suggested the same policy was not pursued at Cannon-street and Holborn-viaduct. Offices over those stations were only allowed in so far as they were connected with railway operational use. It was fair to say that at Moorgate an exception was made in order to assist the comprehensive development of the Barbican area.

The reference back was then withdrawn.

Other recommendations of the committee which were approved were:

Permission to develop, subject to certain conditions, in accordance with plans submitted—erection of an office block, with four retail shops, licensed premises and a bank on the ground floor, at 24 to 32 King William-street, 3 to 16 Crooked-lane, 2 Arthur-street and Crooked-lane (architects: Knapton and Deane, 6 Martin-lane, EC4);

Approval of drawings in compliance with the conditions of a permission granted for the erection of single-storey shops and the improvement of the entrance to Hamilton House for a period of 20 years, at Hamilton House, 135-153 (odd) Bishopsgate (developer, British Railways).

The Architectural Association

Exhibition of Students' Work

REVIEWED BY PETER HOWELL, DIP.ARCH (CARDIFF), ARIBA

ABOUT THIS TIME OF THE YEAR it is possible to catch up with what is happening in the schools of design and architecture by visiting their annual exhibitions of students' work. At present, and until July 28, the Architectural Association School is holding its annual exhibition. Michael Pattrick, the Principal of the School, in his introduction to the exhibition, writes, 'We are anxious to illustrate the sequence and purpose of the curriculum . . .' and this exhibition certainly does, although it would perhaps be of help to the visitor to have a little more written explanation. It would be useful in future if the School were to produce a printed and illustrated catalogue of the exhibition containing a short history of the School, a statement of its policy, and some detailed information on the programmes whose resultant work is exhibited.

The First Year

The first year with PETER SUMMERSGILL as year master starts with an exercise in the use of drawing instruments and develops through studies of anthropometrics, light, structure and the study of a part of London to the first complete piece of architecture that the student produces, which is a house. The high quality of these designs gives some indication of the efficacy of the preceding studies of 'parts' of architecture. One design in particular is worth mention and that is by CAMERON-CLARKE and is presented in the form of a model and also very clear drawings. The study of structure through the making of models is also very interesting, since it is difficult for the student of architecture to come to grips with this subject. An architect is not a structural engineer and yet he must be able to understand the form of structure in relation to the design of a building but not necessarily be able through mathematical analysis to produce a final solution. Through the appreciation of structure with models it can be seen from those on show that even a first-year student can understand in outline the most advanced structural ideas.

The Second Year

The continuation of the exhibition into the second year, under ROBERT MAXWELL, very commendably shows little break in the general purpose of the course. The study of the parts of London is repeated in principle in the study of a village, this time with more purpose in that it is also used as the site for the buildings designed during the year. Following this study of the village the buildings are designed each featuring a different material. The first building is designed in timber and it is interesting to note that in lieu of working drawings the construction is presented in the form of a timber model. Then follows a house in brick and a factory in steel. Finally, the second-year student produces a study of the landscape around the village and produces a model in which are embodied the buildings that he has designed and also any recommendations that he has made for its development. A little out of context at this point is the design of a housing unit designed in terms of interlocking cones by TOMKINS, which is very like the huts of the Bantu.

The Third Year

And so to the third year under DAVID OAKLEY. Here again the pattern of development is continued. The final part of the buildings designed in prescribed materials is completed with the design of a concrete building. To mention one in particular there is a very bold design by BRIDGES of a supermarket which to some extent is close to the work of the early Russian constructivists. At this stage the study of communities is extended to include the town. In this particular year a study was carried out of Aylesbury. From this study the students have prepared joint proposals for the development of the town and individually have developed the design of the buildings. There is a joint scheme by PARSEY, PIERCE and SAMUELS that shows an interesting formation of three buildings all of slab and unit construction interrelated about a common elevated piazza.

The Fourth Year

The fourth year has as its year master JOHN KILLICK and the idea of the study of the community is expanded to embrace part of a city. The section of city studied is a part of London about Regents Park. The major part of the scheme for the development of this area is in the provision of luxury flats but many buildings that might well comprise such development are included such as cinemas, car-parking garages and boiler house—designed by each individual student. One of the most realistic schemes for the design of luxury flats is that by HUDDLESTON. Huddleston has grouped his flats in blocks of seven storeys very neatly adjacent to Regents Park, and his treatment of the layout and design is very sensitive. Another interesting scheme is that by TANG and KNIGHT, worth mentioning for its intriguing complexity. The design of a boiler house by TERRY is interesting although it belongs more to the modern architecture of the '20s rather than the '60s.

Fifth Year's 'Breadth of Vision'

The students in the fifth year spend the whole year working on their final thesis and so the exhibition of their work consists only of these designs. PETER SMITHSON, who is the year master, appears to have produced a certain breadth of vision in his students. Perhaps the most interesting design exhibited is that by CHAN, and is of a rehabilitation centre. This scheme is based on standardised components developed by the designer. It is an inherent difficulty for the student of architecture who works with such a structural system that it is impossible for him to form the balance of importance correctly on the variables involved since he cannot fully develop the techniques of manufacture and assembly to give himself the correct economic advantage. Normally, such ideas are worked out by groups of development architects in conjunction with a full complement of consultants and with the manufacturer and the contractor responsible for the assembly of the final buildings. Another scheme of interest is that by TINKER and is for the housing redevelopment of the Moldgreen area in Huddersfield.

The postgraduate School of Tropical Architecture under DR. OTTO KONIGSBERGER exhibits only one thesis design. It is for the redevelopment of an area in Nassau and is designed by CARTWRIGHT. With careful consideration of the climatic characteristics of the area he has produced a design for interlocking half-level housing in such a way as to make full use of the prevailing breeze. Altogether a stimulating show.

Hospital Architects

Information on Vacant Posts

THE MINISTRY OF HEALTH, as reported in our last issue, has issued a statement on the new salary scales for architects on the professional staff of Regional Hospital Boards, where a number of vacancies are known to exist. Further information about openings in this architectural field can be obtained from any of the Hospital Boards whose addresses are given below.

Regional Hospital Boards

Newcastle. — Benfield-road, Newcastle-upon-Tyne, 6.

Leeds.—Park Parade, Harrogate, Yorks.

Sheffield.—Fulwood House, Old Fulwood-road, Sheffield, 10.

East Anglian.—117 Chesterton-road, Cambridge.

North West Metropolitan.—40 Eastbourne-terrace, London, W2.

North East Metropolitan.—40 Eastbourne-terrace, London, W2.

South West Metropolitan.—40 Eastbourne-terrace, London, W2.

South East Metropolitan.—40 Eastbourne-terrace, London, W2.

Wessex.—Highcroft, Romsey-road, Winchester.

Oxford.—43 Banbury-road, Oxford.

South Western.—27 Tyndall's Park-road, Bristol, 8.

Welsh.—Temple of Peace and Health, Cathays Park, Cardiff.

Birmingham.—10 Augustus-road, Edgbaston, Birmingham, 15.

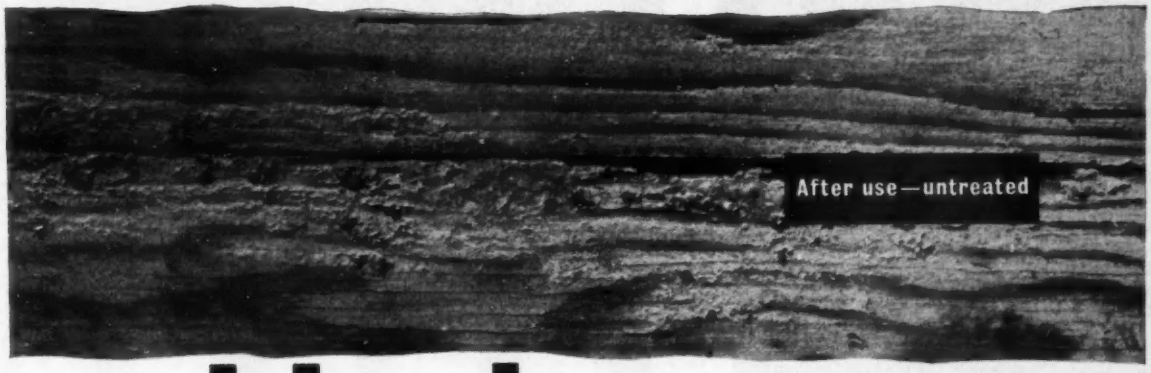
Manchester. — Cheetwood-road, Manchester, 8.

Liverpool.—Pearl Assurance House, 55 Castle-st., Liverpool, 2.

More Architects for Dagenham

THE ESTABLISHMENT COMMITTEE of the Dagenham Borough Council have recommended that the architectural section of the Borough Surveyor's Department be augmented by two posts. The grading of these appointments is now under discussion.

How temporary is shuttering? How permanent is formwork?



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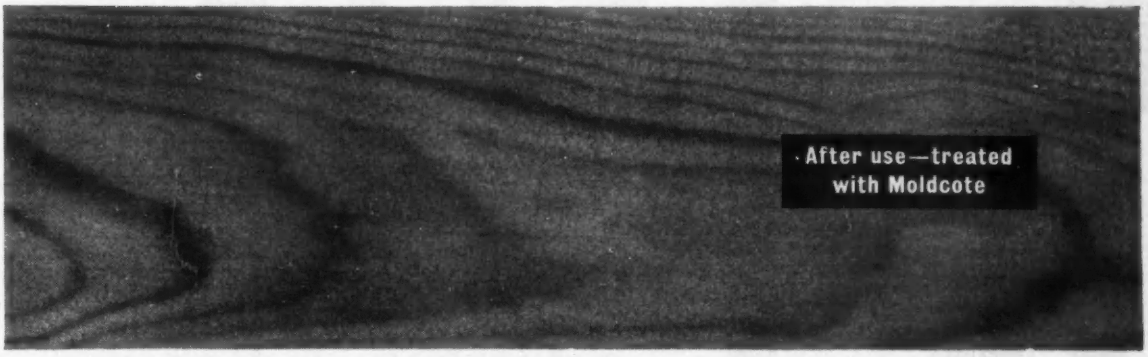

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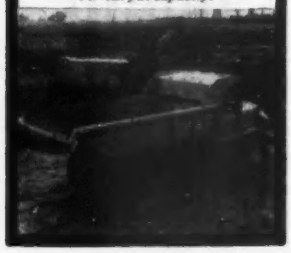

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Training of Clerks of Works

ICW Recommendations to Technical Colleges

BEARING IN MIND the changing conditions since its inaugural examination in 1936, the examination board of the Institute of Clerks of Works has been considering the revision of the existing examination requirements with a view to encouraging students who have attained or are about to attain a Higher National Certificate in Building to go forward to a short course of study leading to the Part II (Final) Examination of the Institute.

In forwarding to technical colleges the relevant information and outline recommendations, the Institute emphasises that these are merely suggestions, since it must rest with the college to prepare a detailed scheme in the light of the existing Higher National Certificate courses.

Outline Recommendations

It is suggested that a technical college course of preparation for the Part II Examination of the Institute of Clerks of Works might fall into one of the three following categories:

1. A course of two to three years duration (approx. 120 hours each year) designed to meet the needs of mature men probably over 30 years of age who already have experience as clerks of Works but have had little or no technical college training.

2. A specially designed course of one or two years duration (approx. 120 hours each year) to meet the case where a sufficient number of students possessing a Higher National Certificate in Building wish to go forward to take the part II examination.

3. A supplementary course to meet the case where relatively few HNC students come forward for further training and it is inexpedient to run a special course of preparation for the part II examination. Here it may be possible for colleges to accommodate these students in existing courses of study for a period of one to two years (approx. 120 hours each year).

Outline suggestions for subjects of study follow. Fuller details are obtainable from the secretary, Mr. E. W. Hazell, ACIS, Liverpool House, 15-17 Eldon-street, EC2.

Status of the Builder's Foreman

National President Endorses IoB Scheme

'THE VITAL LINK between management and men in industry today is the foreman. This is particularly so in the building industry where contracts are carried out on scattered sites in all weathers by a multiplicity of craftsmen and specialists whose work must be carefully planned, co-ordinated and directed to achieve maximum productivity and speed of construction without sacrificing quality of workmanship. The building foreman is the industry's key man and it is only right that he should be accorded a status and level of prestige in the industry that is commensurate with his responsibilities and the important role he plays.' This view was expressed by MR. D. E. WOODBINE PARISH, President of the National Federation of Building Trades Employers, at the half-yearly meeting of the North Western Federation of Building Trades Employers on July 13.

'Much has already been done in this connection,' he added, 'and a unique development is the recent inauguration by the Institute of Builders of a special Registered Foreman class of membership. I know of no other professional institute which specifically provides a class of membership for the supervisory grades of the industry it serves.'

Value of Local Associations

There were now over 35 foremen's associations in different parts of the country, the President said, and much of their success had been due to the active encouragement given to their activities and affairs by building trades employers. 'I regret, however, that there are many localities in the country where no association for building foremen exists and the North Western area is one. With the exception of Manchester and Liverpool, which have particularly virile and successful associations, there is little, if any, opportunity for foremen to meet to discuss their problems and to arrange suitable instructional courses.

'I would therefore urge you to consider this question with a view to helping in the formation of foremen's associations in your principal towns. By so doing you will be helping your foremen to help themselves in raising their status within the industry and in providing the means by which they may keep themselves up to date with technical and other developments in the building industry.'

Resin Exudation in Keruing

EXPERIMENTS CARRIED out recently by the Timber Development Association indicate that resin exudation can be controlled to some extent by the application of suitable surface coatings. An account of this work is given by Dr. V. R. Gray in TDA Research Report C/RR/3—'Prevention of Resin Exudation in Keruing'—which may be obtained, price 3s. 6d. per copy, from the headquarters of the Association at 21 College Hill, London, EC4.

Films for Training Salesmen

REALISM and the ability to concentrate attention to the exclusion of all extraneous forces makes film an ideal medium for sales instruction. A carefully selected range of films covering every aspect of selling is listed in the new booklet issued by the G. B. Film Library, 'Films for Training Salesmen.' In it are given synopses, catalogue numbers, running times, hire charges, and, where applicable, purchase prices. The booklet may be obtained free from the G.B. Film Library, 1 Aintree-road, Perivale, Middlesex.

Basic Materials

Wholesale Prices in June

THE WHOLESALE price index for basic materials and fuel used in manufacturing industry as a whole shows no change compared with the latest estimates for May and has now been steady since March. Imported softwood and raw cotton continue their upward trend, but there have been falls in lead, zinc, copra and rubber. A rise in the indices for construction and house-building materials which has been apparent since last September continues.

The June wholesale price index issued by the Board of Trade for all building and civil engineering materials at 146.9* shows a provisional increase of 0.3* per cent over the figure for the previous month. The house-building materials index at 147.0* shows a provisional increase of 0.4 per cent (June 30, 1949=100).

Commodity	June, 1959	May, 1960	June, 1960
Coal	136·2	135·0*	135·0*
Slates	136·1	136·1	136·1*
Refractory goods, including bricks	127·6	127·4	127·4*
Non-refractory goods, including bricks	110·1	113·5*	113·5*
Building bricks, common, other than fletton, ex-works	112·9	117·4*	117·4*
Building bricks, fletton common, delivered	105·2	105·2	105·2
Glass (other than containers)	120·8	121·5	121·5*
Cement, delivered	115·3	113·2	113·2
Cast stone and cast concrete products	102·9	103·6	103·6*
Synthetic resins and plastic materials	90·2	89·5	89·5*
Paint for building and decorating	108·7	108·2	108·2*
Steel sheets	125·6	126·5	126·5
Aluminium and aluminium alloy products (extruded and drawn)	124·4	129·8	129·8
Galvanised cisterns, tanks and cylinders	112·4	126·9	126·9
Home-grown hardwood ...	104·9	95·9	95·9
Wallpaper	119·8	119·8	119·8
Aluminium, virgin ingot, delivered	115·4	119·2	119·2
Copper, ex-ship, wharf or warehouse	92·5	99·9	100·9
Lead, ex-ship, wharf or warehouse	72·2	80·3	76·1
Zinc, ex-ship, wharf or warehouse	100·2	117·1	115·8
Imported hardwood, ex-yard or wharf	103·2	108·8	109·5*
Imported plywood (delivered to consumers)	93·3	96·5	96·5*
Imported softwood (delivered to consumers)	94·5	103·7	106·6

* Provisional.

Law Report

Demolition Work Undertaken Without Written Contract

Queen's Bench Division, before Mr. Justice Salmon

Emerson v. J. F. & A. R. Eden

MR. JUSTICE SALMON, in the Queen's Bench Division on July 11, said it was almost incredible that a Newbury builder should have knocked down a substantial part of a large house without taking the elementary precaution of first getting instructions in writing from the owner.

Judgment with costs was given for Mrs. Gwyneth Sybil Emerson, widow, of North Sydmonton House, Newbury, in a claim for damage for trespass, and conversion of various chattels arising from the demolition of part of North Sydmonton House in 1958. She sued J. F. & A. R. Eden, Ltd., builders' contractors, of Bartholomew-street, Newbury, and their former managing director, Mr. John Francis Eden, of Winchester-road, Newbury.

Both denied liability and contended there was an agreement to demolish part of the property in return for materials from the demolition.

THE JUDGE, who dismissed with costs a counterclaim by the defendant company for £250 loss of profit resulting from Mrs. Emerson's order stopping demolition, said Mrs. Emerson arranged through Mr. John Eden to buy North Sydmonton House for £5,250. When she returned from a holiday she found a large part of the house had been demolished by defendants. They claimed the demolition work was by agreement with Mrs. Emerson and on her instructions.

His lordship said Mrs. Emerson and Mr. Eden were both fundamentally honest people. She was an 'extremely intelligent, educated and truthful woman.' He was a 'thoroughly decent and honest working builder, although rather muddle-headed.'

In his lordship's view there had been no contract between the parties or any authority given for the demolition work. There had been a great deal of discussion between Mrs. Emerson and Mr. Eden and possibly he had come away with the mistaken idea that he had authority from her to carry out the work.

The truth was that Mrs. Emerson had fallen in love with the house, decided she would have it and took the most lively interest in exactly what work was to be done on the house. She had not made up her mind exactly what was to be pulled down. Unfortunately, Mr. Eden misunderstood her and the case showed how important it was that agreements should be made in writing.

His lordship said he had the greatest sympathy with the defendants. The question of damages would be assessed by another tribunal to be agreed between the parties.

Direct Labour

Aylesbury Council's Assurances

A DEPUTATION from the Aylesbury and District Association of Building Trades Employers recently met the Housing Committee and Officials of the Aylesbury Borough Council and put to them the hazards and problems involved in house-building, so that they may have no illusions in connection with their proposed entry into this field of building operations. The builders claimed that specialised knowledge resulting from years of experience is necessary for successful and economical house-building.

Under the RIBA Form of Contract a building contractor takes all the risks, and particularly today with the stress on fixed price tendering when the final cost of the job is that of the builder's tender price, subject to planning variations. By direct labour the Council will take the risks which include wages and materials prices increases, inclement weather, defects during the maintenance period, etc. The setting up of the necessary organisation, including finance, labour and transport were discussed.

The Housing Committee was reminded that 25 per cent of the local authorities who were building houses by direct labour up to 1950 had now ceased to do so, presumably because they found it uneconomical. The figures given in the House of Commons recently were 178 in 1950 reduced to 139 in 1959. They were also told of the result of the recent census of production which disclosed that the output value per man in the building industry employed by private enterprise was £654 per annum against a comparative figure of £485 per annum in respect of operatives employed by Government Departments and similar bodies.

A Real Danger

Instances of other local authorities utilising direct labour for building operations were referred to. This included Manchester, about which there has been considerable publicity and where, despite lower tenders by private contractors, the Direct Labour Department was given a number of jobs, presumably to keep it going—a very real danger once it is established.

The deputation was assured that if, after all costs have been charged against the contract, the Council finds it cannot build houses economically, both from the aspect of initial cost and maintenance, the building of houses by direct labour will be discontinued. It was also assured that there would be fair competition in tendering by the direct labour department against private enterprise and that the results both of this and the eventual cost of the houses built by direct labour will be made available to the public.

A Holiday Estate in Kent

Large Post-War Private Development

DETAILS of the proposed holiday estate at Seasalter, Whitstable, where 1,600 holiday bungalows on 200 acres of marshland, have been planned, reveal that if the planning authorities give their consent, the 'Golden Bay Estate' will be the biggest private development in Kent since the war.

The holiday homes will be of attractive design, and will each comprise a large lounge, and two bedrooms. They will be sold at about £1,000, the owners paying a small yearly sum towards the upkeep of the estate. They will be occupied for only seven months of the year, which, the promoters point out, means that there will be no need for the provision of schools and other services by the local authority.

Shops will be built, as well as car parks, gardens, and concrete roads, and the estate will have its own sewerage scheme. An expenditure of about £2½m. is visualised.

The position at the moment is that Whitstable Urban Council have asked Kent County Council for its views on the scheme, while they are gathering information from other local authorities who have experience of holiday estates.

Behind the scheme is the Kent firm of building contractors, Messrs. Courtenay Dale, Ltd., of Westgate. It is understood that a new company will be formed to manage the estate if planning permission is accorded.

Loans to Local Authorities

Higher Rates of Interest

THE TREASURY have now directed that the following rates of interest shall apply to all loans advanced to local authorities, as defined in Section 10 of the Local Authorities Loans Act, 1945, from the Local Loans Fund as from July 16, 1960.

	Per cent.
Loans for not more than 5 years ...	6¼
Loans for more than 5 years but not more than 15 years	6½
Loans for more than 15 years but not more than 30 years	6¼
Loans for more than 30 years	6

Portsmouth Shopping Precinct

Pedestrian and Vehicular Segregation

DESCRIBED as 'a bold and imaginative idea, embodying the best planning principles by separating the pedestrian from vehicular traffic,' a £½m. shopping precinct is proposed for a blitzed site in Portsmouth. Plans are being considered by Portsmouth Development Committee. They envisage a 10-storey department store, a supermarket, 28 shops, and pedestrian ways which will completely separate the shopper from traffic.

Apart from the store, the development will be a 2-storey one throughout, and the site, approximately one-and-a-half acres, is located near the Commercial-road end of Arundel-street. The architect is Mr. Peter McG. Corsar, JP, FRIBA, of Portsmouth and London.

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Graduated Pensions and the Builder

Government Scheme Explained

BEFORE April 6, 1961, every builder, builder's merchant or contractor who employs one or more employees is to decide what course of action is to be taken regarding the State Graduated Pension Scheme. This is the date on which the National Insurance Act, 1959, becomes operative. The Act provides for an extension of the present State Pension Scheme and relates additional graduated pensions to earnings in excess of £9 a week.

Every employer is called upon by the Government to choose between either keeping an employee in the Graduated Scheme or 'Contracting Out' an employee from the Graduated Scheme. Two leaflets are available from the local Ministry of Pensions Office or from the Registrar of Non-Participating Employments, 10 John Adam-street, London, WC2. 'A Guide to the New Graduated Pension Scheme' (N.I. 111) and 'Contracting out of the New Graduated Pension Scheme' (R. 1).

The scale of the graduated pensions starts for employed persons over age 18 and who earn more than £9 in any week. The employee is automatically 'contracted in' to the Graduated Scheme if an employer takes no action and there will be either a smaller or greater National Insurance contribution payable than at present, according to earnings.

For those firms who decide to 'contract out' an employee, a certificate must be requested from the Registrar of Non-Participating Employments. This certificate will be granted provided (a) a privately arranged pension scheme is financially sound, (b) the pension provided is as good as the maximum pension payable by the State Graduated Scheme and (c) the employee does not lose his pension rights if he changes from one employer to another.

Employer's Freedom

An employer has some freedom of action in the matter in that he can decide what should be provided for an employee on retirement. He may consider that an employee is to receive (1) the pension provided by the State Graduated Scheme, or (2) the pension provided by the State Graduated Scheme supplemented by a private scheme or (3) the minimum State pension supplemented by a private scheme.

In general terms, where the earnings of employees average at least £12 a week for males or £11 a week for females, it may be more economical to set up a private pension scheme and 'contract out' an employee than to 'contract in.' For those earning less than these averages it will be cheaper for an employer to 'contract in' to the new State Scheme.

The difference in future contributions can be seen from the following example. For a male employee with average weekly earnings of £13, the present weekly contribution is: employee 9s. 11d., employer 8s. 3d., total 18s. 2d. The future weekly contribution from April, 1961, under the Graduated State Scheme will be: employee 11s. 10d., employer 10s. 6d., total 22s. 4d., if an employer decides to 'contract in' the employee. The contribution for those employees 'contracted out' remains as at present.

As a rough guide to the amount of pension provided by the State, a Government factor, at present £2 6s. 2d. for a male and £1 18s. 6d. for a female, for each year of future service, may be multiplied by the number of years to age 65 for a male or 60 for a female. That is, for a man aged 35 now, retiring in 30 years, thirty times £2 6s. 2d. is £69 5s. a year at 65, or approximately £1 6s. 8d. a week. The State Graduated pension may be increased in future years.

Several private schemes are possible such as setting aside so much from the income of the firm each year and building up a fund to be held in trust for the employees. Another scheme which is widely used is one arranged through an assurance company. If one or two men or women only are employed, then an individual endowment policy with an exchange of letters between employer and employee can be used. If there is a large number of people employed, an assurance company may recommend a group pension scheme. Either scheme can be made to provide a pension suitable to an employer's own needs.

It is advisable to discuss the matter with a bank manager, accountant, solicitor or an insurance representative and an early start is recommended by the Government. All employers in the United Kingdom are affected and if the decision is to 'contract out,' the certificate must be obtained by April 6, 1961, to become effective from that date. Employees are automatically 'contracted in' on April 6, 1961, and the new rates of contribution are payable from that date, until the certificate has been issued.

R. J. SIMMONDS.

British Exhibition, New York

'Outstanding Success' for Export Trade

SPEAKING at a meeting in London on June 28 LORD ROOTES, president of the Federation of British Industries, announced that the British Exhibition held in New York from June 10 to 26 was an outstanding success. 'The latest figures,' he said, 'speak for themselves. Over 30,000 buyers registered their names and more than 10,000 people made inquiries at the joint Dollar Exports Council and Federation of British Industries stand alone. In regard to industrial development in the United Kingdom, more than 100 genuine inquiries for factory development in this country were received.'

Illustrating the success of the exhibition, Lord Rootes quoted the results of a firm of mobile hydraulic uplift ladder manufacturers. By June 25 this firm alone had received orders worth more than $400,000. They had received a further 800 genuine inquiries which were still pending.

'This whole exercise,' Lord Rootes continued, 'has provided not only a good example of smooth Anglo-American relations, but also it has shown how success can be achieved by good teamwork over here. The Dollar Exports Council, the Federation of British Industries and British Overseas Fairs Limited have worked in complete harmony and the results of the exhibition have really surpassed all expectations.'

Reflecting upon this success in a quasi-pessimistic mood, Lord Rootes said that it meant, on the one hand, that we could improve our export trade to the dollar areas, but with liberalisation of dollar trade being brought about by the British Government, it also meant that our balance of trade might gradually grow worse unless a more determined effort was made to export to the dollar countries and to the world as a whole.

'While the exports of the United Kingdom to the USA,' he concluded, 'increased by 7.4 per cent during the month and those to Canada rose by 14.4 per cent, America increased her imports into this country by no less than 95.6 per cent and Canada's increase was 40 per cent. Both countries sold more in this country by far than we sold to them. Our balance of payments problem in this country is acute and it is good to know that the Government are alive to it, and in this respect the increased importation of raw materials is not necessarily harmful to us, provided we make sure that these materials are being used to produce goods for export—and that we do export.'

Book

REINFORCED CONCRETE RESERVOIRS AND TANKS. By W. S. Gray; revised by G. P. Manning. (London: Concrete Publications, Ltd., 1960.) Price 12s.

FOR THE fourth edition, this well-known book has been extensively revised to include up-to-date methods of the design and construction of most types of open and covered reservoirs, tanks on the ground and below ground, swimming pools, and such industrial structures as gasholder tanks, tar tanks, and the like.

Special features include several charts and other data relating to the design of reinforced concrete works in accordance with the new British Standard Code of Practice No. 2007 (1960) for structures for the storage of water. As in previous editions, Dr. Reissner's method of calculating the bending moments on the walls of cylindrical tanks is given in full. Numerous additional examples, with working drawings and illustrations showing the structures in the course of erection, are given.

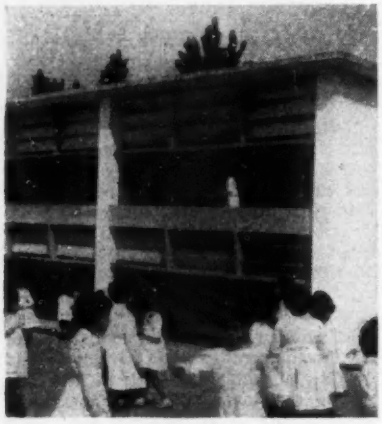
Building in Lisbon

Intense Activity in the Portuguese Capital

BY ROBERT W. PORTER, MBE, FCIS, FSAA

FOR ITS SEVENTH CONTINENTAL TOUR to study building and civil engineering work abroad, the Eastern Federation of Building Trades Employers this year visited Portugal, a country which has not been much in the news on the constructional side. Looking back over a memorable fortnight one can say that the enjoyment of the visit was equalled by its interest, Lisbon presenting the contrasting spectacle of a progressive 20th century capital and a city which, in many ways, has changed little over the years.

The clear invigorating air and the warm southern sun show off to advantage the delicate pastel shades of the old city and even give a sparkle to 20th century concrete. After the earthquake of 1755 the



A typical primary school

city was extensively rebuilt under the direction of the Marquis of Pombal, whose statue looks down the broad tree-lined Avenida da Liberdade, a fine example of what a central thoroughfare should look like. Lisbon has almost doubled its population in twenty years and the new suburbs with many well-sited blocks of multi-storied flats have an open sunny appearance. The use of varied colours in external renderings, attractive mosaic panels, and ubiquitous window boxes with a profusion of flowers all contribute to the gaiety of life in the Portuguese capital.

Visits to building sites, interesting in themselves, gave us a good cross section of the economic development of the country. Education is being rapidly expanded not only in attractive primary schools, but also in the field of higher education. As in Madrid so in Lisbon, University City seemed to be a focal point for intense building activity. Our visit to the 38-sq. miles site with its fifteen-year programme revealed an immense undertaking already one-fifth complete, intended to integrate all the faculty and administrative buildings of the University of Lisbon. The inspection of several completed and partially completed lecture and administrative blocks showed that, although the reinforced concrete work was rough, the finishes in Portuguese marble and ceramics produced an attractive finished article. Discussion with the site engineer revealed that on this contract only a few firms had been invited to tender on specification and drawings only. However, the Government were prepared to ease the financial commitments of the successful contractor by payments in advance against a bond.

A most striking building is the new eleven-storey National Library, designed to accommodate three million volumes at a cost of over £1m. It is due for completion in two years' time. The earthquake risk, a factor in Portuguese design, has resulted in some massive reinforced concrete work with deep foundations. A fine lecture hall with an 80 ft. concrete roof span came in for detailed examination, the general opinion being that design and research were ahead of construction techniques.

Municipal Enterprises

Visits were also paid to the recently completed underground system with eleven stations, and the 1,500-bed Hospital of Santa Maria costing over £3m. Improved standards in milk and food are being created by the new milk pasteurisation plant and the new municipal slaughter house, with extensive cold storage facilities. These recently completed, well-equipped, efficiently run, municipal enterprises were most interesting and instructive to visit.

Several blocks of flats were in our itinerary, but most time was spent at a building co-operative venture of ten-storey luxury flats in one of the best parts of Lisbon where land was very expensive. Those members of the co-operative selected by ballot for the available 90 per cent advance had the opportunity to purchase one of the flats. The block of forty flats, costing in total about £½m., provides most attractive accommodation with a liberal use of marble and hardwood joinery. Cool and light with sun balconies and underfloor heating for the winter, the smallest flat (2,000 sq. ft.) had four bedrooms and two reception rooms and cost about £5,500. Amenities included ample underground storage and garaging facilities.

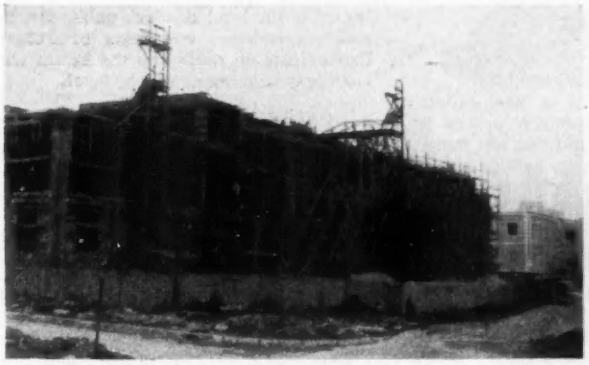
On the Continent one is inevitably shown a building which is, or will be, bigger and better than anything so far built in Europe. Portugal was no exception with its Hotel Ritz which must certainly be among the most luxurious in the western hemisphere. We were fortunate in having a technical account of the building from the chief engineer and a conducted tour by the hotel's director. Recently completed and situated on a magnificent three-acre site dominating the city, this 300-bedroom hotel consists of four lower floors and eleven upper floors. Built in reinforced concrete with 10 ft. diameter piles 75 ft. deep, the foundations required 3,000 cu. yd. of concrete and 400 tons of steel reinforcement. A considerable safety margin was allowed because of earthquake risk. The superstructure required over 11,000 cu. yd. of concrete and 1,600 tons of steel. Portuguese marble, Scandinavian granite and natural stone have been chosen for use externally to keep down maintenance costs. The internal finishing with the liberal use of marble, mosaic and tiles made this an excellent advertisement for Portuguese building craftsmanship.

The hotel took five years to build and contracts were let separately for excavation, foundations, superstructure, and specialist services, the total constructional cost reaching £2m. A further £1m. was spent on the most lavish furniture, carpets, murals, and decorations.

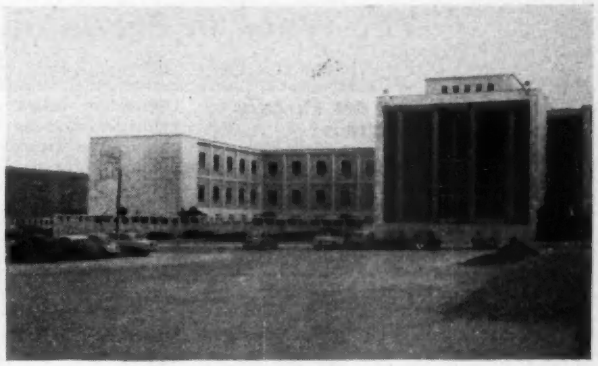
In major contracts it is the practice to invite a strictly limited number of firms to tender, bills of quantities being apparently unheard of for tendering purposes. As was the case with the Ritz Hotel, several contracts may be entered into with different firms, e.g. foundations, superstructure, etc. The low cost of labour—basic rates being about one-third of ours—results in only limited mechanisation and women were seen on occasion unloading sand by baskets carried on the head. Building workers appeared to work steadily, the Portuguese being by nature a fairly industrious people.

The National Laboratory of Civil Engineering in Lisbon is one of the most revealing indications of Portugal's determination to keep abreast of current

Typical flats in a Lisbon suburb



University buildings under construction



A new lecture block in University City

scientific and technological development. Although Portugal is economically less favoured than many other countries on the Continent, its civil engineering laboratory is a fine example of purposeful direction and a lively appreciation of modern building and civil engineering problems. It was established in 1947 under the Ministry of Public Works.

In a brief introduction to the work of his laboratory, the director, engineer Manuel Rocha, gave a concise review of the sixteen different departments, most of which we were to visit in a three-hour tour. To carry out work for national and foreign public and private institutions and on its own initiative, the annual cost of the laboratory is financed almost equally by fees and public funds. Further extensions are being planned with subsidies from the Gulbenkian Foundation and the National Development Plan.

In quick succession we visited departments dealing with problems concerning design, construction and maintenance of buildings, materials including timber and metals, soil mechanics, roads and aerodrome construction, acoustic and thermal insulation, maritime hydraulics, concrete and ceramics. The laboratory is perhaps best known for its study of concrete dams, wide experience having been gained from a study of more than fifty in various parts of the world. We saw investigations, by the membrane and other methods, of some dozen dams to be erected in Europe, South America and Africa. Field tests and observations at daily or weekly intervals, during and after construction, have provided a mass of data on the complex behaviour of dams. We were also particularly interested to see tests being carried out on models constructed from designs of competitive tenders recently submitted for a bridge over the River Tagus at Lisbon.

A visit to the library, with its 25,000 volumes and 450 regular journals, and the electronic computer (of English make) completed a worthwhile tour. Scholarships for postgraduate study awarded to national and foreign engineers were an indication of the laboratory's work as a teaching institution.

British Standards

Letter Plates ; Playground Equipment for Parks ; Bitumen Road Emulsion : Code of Practice for Traffic Bearing Structures

Letter Plates. Part 2: Standard Height and Fixing Recommendations (BS 2911 : 1960)

FOLLOWING the publication of BS 2911, 'Letter Plates' (HMSO, price 3s.) in November, 1957, it has been found that a further problem remained to be solved —the most convenient height at which they should be fixed. This new publication specifies a maximum and minimum recommended fixing height, and also gives general recommendations for overcoming some of the more difficult situations where a letter plate cannot be fixed directly on an entrance door in the accepted manner.

Playground Equipment for Parks (BS 3178: Parts 2B and 3A: 1960)

SLIDES AND PENDULUM see-saws are dealt with in two parts to BSI's series of specifications on Playground equipment for parks. Part 2B, price 6s., 'Special requirements for slides,' opens by defining a slide as 'a rigid structure comprising a steel framework supporting a chute, access to the top of which is provided by a flight of metal steps suitably guarded.' A section devoted to materials includes requirements for wire mesh, steps, bracket pieces and special castings, timber and steel sheet. A series of 8 tables set out the dimensions of supporting framework, steps, chutes, guard rails, platforms, safety barriers, cabins and foundation blocks.

Part 3, price 4s., 'Special requirements for swinging apparatus. Section A: Pendulum see-saws' defines these see-saws as consisting of 'a tubular steel framework incorporating one horizontal solid steel shaft from which is suspended a plank which swings to and fro.' It specifies the quality of materials, and methods of construction. A table of dimensions sets out the requirements for structural safety, and limits certain other dimensions with the object of preventing the swinging plank from injuring children who have strayed inside the boundary of the apparatus.

Bitumen Road Emulsion (Anionic) (BS 434: 1960)

THIS is the third revision of the British Standard first published in 1931 under the title 'Bitumen road emulsion for penetration (grouting and semi-grouting) and surface dressing.' Whereas previously only penetration (grouting and semi-grouting) and surface dressing were specified, the new edition, price 7s. 6d., is aligned with BS 2542, 'Recommendations for the use of bitumen emulsion for roads,' in that it covers tack-coating, retreading, concrete and soil-cement curing, slip coats, pre-mixing and mist-spraying.

The revision is the 'Test for stability to mixing with coarse aggregate (aggregate mixing test)' which has been developed by the Technical Committee of the Road Emulsion Association Ltd. This is designed to give a quantitative appraisal of the stability of emulsions to mixing with aggregates, and is intended to be used to differentiate between the labile, semi-stable and stable types of emulsions. The stable types are confirmed by a cement mixing test.

Draft British Standard Code of Practice for Traffic Bearing Structures—Pavings (CP 2006 : 1960)

THIS new code of practice (price 30s.) represents a guide and takes the form of recommendations; it is not a specification, and compliance with it does not confer immunity from relevant legal requirements, including by-laws. CP 2006 is divided into five parts which cover design and construction of foundations; concrete roads and airfields; surfacings other than concrete; footways; cycle tracks, and verges; and surface water drainage. It includes a comprehensive series of tables and figures which provide a ready and useful reference to numerous practical aspects of paving design and construction.

The committee who prepared the code included representatives from the government engineering and scientific departments, from consulting engineers and contractors, and from local authorities.

The Week in Parliament

From Our Own Correspondent

Restrictions on Public Investment

THE OPPOSITION'S deep anxiety about the recent Government decision to maintain capital investment in the public sector for the coming year at its present level, became quite evident in the vigorous attack on Government economic policy made by MR. HAROLD WILSON, the 'Shadow' Chancellor, when he launched the economic debate in the Commons on July 11.

However, in his reply, briefly reported last week, MR. HEATHCOAT AMORY, the Chancellor of the Exchequer, gave the rather heartening information that the rate of increase in public investment was now levelling off and no very drastic cutting back would be required to hold the total for next year.

The Chancellor said that in the public sector, investment over the past few years had grown fast. Expenditure rose from £1,470m. in 1958-59 to £1,620m. in 1959-60 and the latest revised estimate of the programme for 1960-61 was £1,730m., compared with the figure of £1,675m. given in the 'Economic Survey.' He had been invited by Mr. Wilson to give the figures for the different items making up the public sector programme. He was not able to do that on this occasion but when the programme had been officially completed and agreed, the Government intended to lay it before Parliament.

MR. DOUGLAS JAY asked if the Chancellor could say whether each item was to be held to the level of the present year or only the total, and MR. AMORY replied: 'The total, not each item.' He went on to explain that the Government's aim was not to halt expansion but to moderate its rate to a safe pace. If, in the result, their restraints were to prove excessive nothing was easier than to relax them.

In general the economy was in good shape, but there were two grounds for anxiety—current export performance was still not good enough and there was a serious risk that rising money incomes might push up costs and prices, thus making it still harder to get exports.

MR. WILSON had contended that the recent measures constituted 1955 all over again and that it had all happened because production increased. The Government's failure to plan the location of industry meant that some areas had still not tasted prosperity. A 6 per cent Bank rate, or even a higher rate, would not deal with the excesses in the economy; with the speculative gamblings in property, or with the anti-social profiteering in urban land.

The Government, he maintained, took the view that if one built a vast block of offices for property speculators, advertising agents or company promoters, this was a desirable addition to national wealth, but if one built a hospital the economy was in danger. One could build a 'pub' or bowling alley; that was sacrosanct. But one more school—that was inflation. Under the present Government priorities were all wrong. The Opposition called for a new order of priorities first as between private and public expenditure, and the test must be not private profit or the lightening of the burdens on those best fitted for bearing tax burdens, but on national survival and social interest. Second, they called for a new order of priorities between private consumption and national investment.

MR. AMORY said no one would like to see their rate of national investment still higher than it was than he. He did not expect that the restraining measures which he had taken would have more than a marginal effect on industrial investment in fixed capital. Taking all the measures together, he would judge that the effect was more likely to be on consumer expenditure and on stockholding, than on fixed investment.

MR. GRIMOND, the Liberal leader, said he was not much concerned about the height of Government expenditure because of the need for hospitals, schools and roads, but he was concerned that expenditure should go into the right channels and that was not clear at present. The Government should set up a body to secure better direction to investment in the nationalised industries.

MR. REGINALD MAUDLING, President of the Board of Trade, replying to the debate, said the Opposition exaggerated the effect of Bank rate on public sector investment. To judge by the evidence given by local authorities to the Radcliffe Committee, the effect of Bank rate on their building programmes was relatively small. The movement of short-term interest rates was far less important in capital investment than long-term interest rates movements.

When they talked about restraint on public expenditure, they must have some regard to the level at which public investment expenditure was being controlled. Expenditure on roads and the health services was running at record levels.

Part of the 120-year-old iron chain found round the shaft leading to the platforms that have been found during rehabilitation work at Wapping Station, on London Transport's East London line. The chain, which is of 6-in. links forged from 1¼-in. dia. bar, is in 'reasonably' good condition

Scotland's Special Problems

The long tailpiece to the economic debate took the form of two days' discussion on the problems of Scotland. MR. HUGH GAITSKELL, Leader of the Opposition, said there was no sign of a fundamental adjustment in Scottish employment and industry but only of a belated recovery from recession which was well behind that of Britain as a whole.

Over these last years, contended Mr. Gaitskell, the Government had never been tough enough in refusing IDCs in the heavily congested areas of England. There had been a general absence of planning the location of industry over the country and this had created grave problems in England and in Scotland.

It was this that in large part was responsible for the ghastly spread of subtopia in the Midlands and the South of England. It was this that was helping to create the problems that should be worrying the Minister of Housing and Local Government, and it was this that was indirectly one of the reasons for the immense rise in land values.

'I am certain that one of the lessons of all this,' said Mr. Gaitskell, 'is that we shall never solve the Scottish problem and never solve the English problem of congestion in urban areas unless and until the Board of Trade accepts its responsibility, not just for tinkering with the problem, but planning the location of industry as a whole.'

MR. REGINALD MAUDLING, in a review of various industries, said that building and contracting showed an improvement last year, and in the course of 1960 building would expand. The general picture in the middle of 1960 was continuation of the increasing activity in the latter part of 1959.

They had been making strenuous efforts to get industrialists to go to Scotland and expand there. They were content to be judged by results. The figures were: 1959, projects approved 3.9m sq. ft., nearly 5,000 jobs; 1959, 6.1m sq. ft., more than 7,000 jobs; the first half of 1960, 4.6m sq. ft., some 13,000 jobs, the biggest six month's record. Out of all Government building in development districts, over 50 per cent was going on in Scotland.

Losses of Agricultural Land

SIR C. THORNTON-KEMSLEY asked the Minister of Agriculture, Fisheries and Food, on July 11, to break down the figures of net decreases in agricultural areas of England and Wales so as to bring up to date the table given on May 4.

MR. JOHN HARE wrote: The table below includes the figures for 1958-59, the latest year available. The estimates exclude land which has been converted to allotments, woodlands and forestry development. Over the 20 years to 1958-59, the area of land transferred to these latter uses totalled 419,000 acres.

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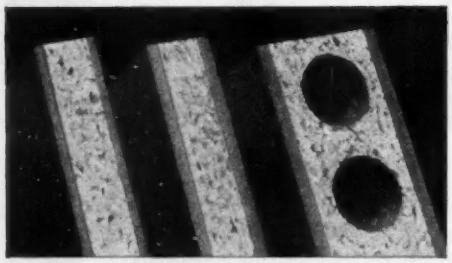

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NET DECREASES IN THE AGRICULTURAL AREA OF ENGLAND AND WALES

Year	Building and General Constructional Development	Sports Grounds	Miscellaneous*	Total
WAR YEARS:	Acres	Acres	Acres	Acres
1939/40–1941/42	41,000	+26,600	387,400	401,800
1942/43–1944/45	50,100	+ 400	221,600	271,300
Total	91,100	+27,000	609,000	673,100
Average per year	15,200	+ 4,500	101,500	112,200
POST-WAR YEARS:				
1945/46–1947/48	108,100	26,000	+149,300	+15,200
1948/49–1950/51	84,300	24,700	+ 39,800	69,200
1951/52–1953/54	98,500	10,100	+ 17,100	91,500
1954/55–1956/57	106,900	9,200	+ 10,000	106,100
1957/58	27 800	2 500	+ 5 200	25 100
1958/59	34,300	2,400	+ 1,600	35,100
Total	459,900	74,900	+223,000(*a*)	311,800
Average per year	32,800	5,400	+ 15,900	22,300

* The expression miscellaneous used in Cmd. 6378 (Report of the Committee on Land Utilisation in Rural Areas) refers mainly to certain Government Departments, Service and Civil, but excluding the Forestry Commission.

Plus figures indicate net recoveries.

(*a*) In the post-war period (1945/46–1958/59) the information derived from the agricultural returns recorded increases of 387,500 acres as being recovered from Government Departments, and decreases of 164,500 acres as being transferred to Government Departments.

Other Business

Preserving Industrial Monuments

LORD JOHN HOPE, replying to a question by Mr. Boyden, said: 'I await with interest the outcome of the general survey of industrial monuments which the Council for British Archæology plan to carry out, starting with a pilot survey in Staffordshire. In the meantime I am willing to consider the use of my powers to protect any outstanding examples in this field which may be in special danger of destruction.'

British Museum Extensions

MR. ERIC FLETCHER asked the Minister of Works on July 5 what steps he was taking to acquire the site to the south of the British Museum extending to New Oxford-street, designed to house the new National Library which was proposed as part of the scheme announced for the expansions and rebuilding of the British Museum.

LORD JOHN HOPE: 'Negotiations have already opened for the purchase of a substantial part of the site and, subject to the availability of funds, it is hoped to complete the purchase of the whole of the site in a programme spread over the next six or seven years.'

Delay on Birmingham-Preston Motorway

A DELAY in the start of work on the Lancashire section of the Birmingham-Preston motorway was regretted by MR. ERNEST MARPLES, Minister of Transport, in a written reply on July 6. He said he had expected that work would begin this summer. He explained:

'The Lancashire County Council, as my agent authority, invited tenders for two contracts for the 26 miles between Preston and Warrington. Three firms submitted tenders for both contracts and a fourth firm for one contract only.

'The average cost per mile in the lowest tenders proved very much higher than for sections of motorway elsewhere. The Lancashire County Council are of the opinion that this may be mainly due to poor soil conditions, to the presence of mine workings (both of which would necessitate heavier excavation than usual and the import of large amounts of fill) and to the cost of drainage in an area which is largely built up.

'The additional cost would, however, be so substantial that I have asked for a review of the particulars of the contract documents which were issued to tenderers in order to see whether savings could be made without departing from the basic specification. The review will be carried out, as a matter of urgency, by officers of my department, the Road Research Laboratory and the County Council. I hope that, following this review, I shall be able to authorise the Lancashire County Council to invite fresh tenders for the motorway later in the year.'

Bricks and Monopoly Commission

MR. ROBERT EDWARDS asked the Minister of Works on July 12 whether his attention had been drawn to the acute brick shortage, particularly in the West Midlands area, which was holding up the building of houses; if he was aware of the recent decision to increase the price of bricks; and, in view of the high degree of monopoly in this industry, if he would refer the structure of the brick industry to the Monopoly Commission for inquiry.

LORD JOHN HOPE wrote in reply: 'I know that despite a record delivery of bricks so far this year demands in some parts of the country cannot immediately be met. Nevetheless, a very high level of building activity is being maintained. I am aware that the prices of some bricks have recently been increased. The question of referring the structure of the brick industry to the Monopoly Commission is a matter for the President of the Board of Trade.'

Publicity for Planning Decisions

Replying for the Ministry of Housing and Local Government during the committee stage of the Caravan Sites and Control of Development Bill, on July 11, EARL WALDEGRAVE said that the Minister was considering closely the question of more publicity for planning decisions and he had it in mind to give further guidance to local authorities. Mr. Brooke had it in mind when the Public Bodies (Admission to Meetings) Bill became law to issue more advice to local authorities about publicity in general.

Urban Redevelopment

MR. WADE asked, on July 12, by what method the Minister of Housing and Local Government proposed to encourage the fullest use of land within urban areas for development.

MR. BROOKE wrote: 'Infilling redevelopment with increased density, use of all available land and the conversion of existing properties can all play their part. I am preparing a circular to local authorities on the planning issues arising.'

MR. WADE also asked the Minister what steps he proposed to take to ensure that the community should derive some part of the increased site value of land available for development when such increased value had been created by the community.

MR. BROOKE wrote: 'This is a very old question and has been the subject of many bright ideas. None of them has worked. I am concentrating my efforts on continuously improving the operation of planning control.'

MR. KENNETH ROBINSON asked the Minister how many staff, and in what grades, were employed in his recently-established Urban Renewal Research Unit.

SIR KEITH JOSEPH, Parliamentary Secretary, wrote: 'A principal planner, a senior planning officer, a planning officer and an estate officer are at present engaged part-time on this work. Other officers, administrative and professional, are associated with them as required.'

The Channel Tunnel

A large number of MPs of all political parties have signed a motion recommending to the Government that arrangements should be made at the earliest opportunity, in consultation with the Government of France, to work out the precise conditions on which the construction of a Channel tunnel could begin.

LORD CHESHAM, Parliamentary Secretary, Ministry of Transport, said in the House of Lords on July 13 that the Government were making a close study of the Channel Tunnel Study Group's report and would reach a conclusion as soon as possible.

THE BUILDER CURRENT PRICES

THE information given on these pages has been specially compiled for *The Builder* and is copyright. It is the intention that the details given should indicate fair average prices of materials, not necessarily the highest or the lowest. The prices apply to large quantities of materials loaded at works, delivered at London Stations or at site in London Area as stated. Prices for smaller quantities ex merchant's warehouse will necessarily be higher so as to include the stocking and handling costs involved. It is recommended that the prices of materials should be confirmed by inquiry from suppliers and merchants.

AGGREGATES AND SAND

Delivered site in full lorry loads. Average of prices for Boroughs of Westminster, Paddington, Holborn and St. Pancras.

		£	s.	d.
Pit Ballast	per yd.	1	5	5
Pit Sand	,,	1	3	8
Washed Sand	,,	1	6	9
⅜ in. Shingle	,,	1	4	3
¼ in. Broken Brick	,,	1	0	9
Pan Breeze	,,	1	0	6
Fine or Coarse Foamed Slag Aggregate	per ton	3	8	0

2 yds. of fine and 2.6 yds. of coarse per ton.

CEMENT, etc.

Including non-returnable jute sacks or paper bags.

Best British Portland Cement. Standard Specification delivered Charing Cross area.

		£	s.	d.
6-ton loads and upwards, site	per ton	5	10	0
1 to 6 tons, site	,,	6	2	0
Rapid-Hardening Cement in 6-ton loads and upwards to site	,,	6	0	6
1 to 6 tons do. site	,,	6	12	6

Aquacrete Water Repellent Cement. 32s. 6d. per ton on ordinary cement prices.

Sulphate Resisting Cement. 32s. 6d. per ton on ordinary cement prices.

Red, Buff or Khaki Colorcrete in 6-ton lots	,,	8	10	0

Other colours according to colour.

In 4-ton lots from 308s. 0d. to 778s. 0d. per ton.

White Portland Cement	,,	13	15	6
Under 1 ton	per cwt.		16	9
417 Cement (Ultra Rapid Hardening) in 6-ton lots and upwards	per ton	7	2	6

Super Cement (Waterproof), 32s. 6d. per ton above Portland Cement.

Cullamix Tyrolean Finish, £11 8s. 0d. to £14 3s. 0d. (1-ton loads and upwards.)

Lightning and Ciment Fondu Brands High Aluminous cement, 6-ton lots and up	,,	15	14	6
Stourbridge Fireclay, 6-ton loads at Railway Depot, London	,,	6	19	0
Stourbridge Fireclay, 6-ton loads (London sites)	,,	7	7	0
Moler Mortar Powder for Flue Bricks (London sites)	per cwt.	1	10	0

BRICKS

Full Loads.

		£	s.	d.
First Hard Stocks	per 1,000	15	19	6
Second Hard Stocks	,,	14	3	6
Mild Stocks (Kiln Burnt)	,,	10	5	0
Mild Stocks	,,	10	0	0

All loaded free into lorry at the works. The question of haulage is still very difficult and prices must be obtained from job to job.

2½ in. Nominal Fletton Bricks to sites in W.C. district:

Commons	,,	6	2	0
Cellular Commons	,,	6	2	0
Keyed do.	,,	6	4	0
Rustics	,,	8	2	0
Cellular Rustics	,,	8	2	0
Single Bullnose Commons	,,	8	4	6
Sandfaced	,,	9	2	0
Tuscans	,,	9	17	0
Saxons	,,	10	5	0
Golden Buffs	,,	10	12	0
Dapple Light Facings	,,	10	19	6
Heather Facings	,,	10	15	0
Best Blue Pressed Staffs (London stations)	,,	30	12	6
do. do. (London sites)	,,	30	14	0
do. Bullnose (London stations)	,,	31	11	6
do. do. (London sites)	,,	31	13	0
Blue Wire Cuts (London stations)	,,	27	5	0
do. do. (London sites)	,,	27	6	6
Midhurst Lime Bricks (London sites)	,,	11	0	6
Uxbridge Whites (London sites)	,,	10	19	0
Special Purpose Sandlime Bricks (London sites)	,,	8	12	0
Best Stourbridge Fire Bricks:				
2½ in. (London stations)	,,	30	12	3
2½ in. (London sites)	,,	31	1	0
3 in. (London stations)	per 1,000	36	14	9
3 in. (London sites)	,,	37	5	3
2½ in. Moler Flue Bricks (London sites)	,,	31	10	0
2½ in. Machine-made Sandfaced Red Facings (London sites)	,,	17	11	6
2½ in. Machine-made Multi Red Facings (London sites)	,,	17	16	6
2½ in. Hand-made Sandfaced Red Facings (London sites)	,,	19	15	0
2½ in. Hand-made Sandfaced Multi-Colour Facings (London sites)	,,	19	15	0
Hand-made Sandfaced Cherry Red Facings, Berkshire district (London sites)	,,	19	13	0
Hand-made Sandfaced Multi-Colour Facings, Berkshire district (London sites)	,,	19	13	0
Rubber Bricks for gauged arches (London sites)	,,	49	1	3
2½ in. Surrey Clamp Burnt Multi Stock Facings (London sites)	,,	15	6	6
2½ in. Surrey Kiln Burnt Multi Stock Facings (London sites)	,,	16	7	0
Glazed Bricks (London sites), White, Ivory, Brown:				
Stretchers	,,	64	0	0
Headers	,,	63	0	0
Quoins, Bullnose and 4½ in. Flats	,,	80	0	0
Double Stretchers	,,	85	0	0
Double Headers	,,	77	10	0
One side and two ends	,,	87	0	0
Two sides and one end	,,	89	10	0
Splays and Squints	,,	83	0	0

Cream and Buff, £3 extra over White. Other colours, hard glaze, £8 10s. 0d extra over White. All above prices plus 32½% for Best quality and plus 32½% less 10% for Second quality.

PARTITION SLABS, etc.

Delivered Central London Area. (W.C. District.)

HOLLOW CLAY PARTITION BLOCKS (Keyed)

Minimum lorry loads

		£	s.	d.
*2½ in. 140 yds.	per yd. sup.		4	6

BUILDING BLOCKS (Keyed)

*3 in. (6 cavity) 110 yds.	,,		5	7
*4 in. (6 cavity) 90 yds.	,,		7	0
6 in. (8¾ in. × 5⅛ in.) 1,250 blocks	per 1,000	27	13	0

* Half blocks at no extra charge.

CLINKER CONCRETE

2 in. 100 yds.	per yd. sup.		3	9
2½ in. 85 yds.	,,		4	4
3 in. 75 yds.	,,		5	3
4 in. 55 yds.	,,		6	5

CRANHAM TERRA COTTA

2 in.	,,		6	9
2½ in.	,,		7	9
3 in. Load bearing quality	,,		8	9
4 in. do. do.	,,		10	9

MOLER PARTITION BLOCKS

2 in. 150 yds.	,,		11	3
2½ in. 120 yds.	,,		14	0
3 in. 100 yds.	,,		15	0
4 in. 90 yds.	,,		17	0

LIGHTWEIGHT CONCRETE BUILDING AND PARTITION BLOCKS OF VARIOUS SOURCES OF MANUFACTURE

2 in. 100 yds.	per yd. sup.		5	4
2½ in. 80 yds.	,,		6	5
3 in. 65 yds.	,,		7	5
4 in. 50 yds.	,,		9	4
4½ in. 44 yds.	,,		10	2
6 in. 33 yds.	,,		13	5

THERMALITE-YTONG PARTITION BLOCKS

2½ in. 144 yds.	,,		7	0

THERMALITE-YTONG LOAD-BEARING INSULATING BLOCKS

3 in. 120 yds.	per yd. sup.		8	5
4 in. 90 yds.	,,		11	0
5 in. 72 yds.	,,		13	9
6 in. 60 yds.	,,		16	6
8½ in. 42 yds.	,,	1	3	8

FLOOR BLOCKS AND FILLER TILES

Floor Blocks 12 in. × 12 in. delivered in full lorry-loads

3 in.	per 1,000	34	16	0
4 in.	,,	37	8	0
5 in.	,,	44	17	0
6 in.	,,	51	4	0
7 in.	,,	62	18	0
8 in.	,,	73	11	0
9 in.	,,	81	0	0
10 in.	,,	89	15	0

Filler Tiles in multiples of 10 tiles per 1,000 multiples:

12 in. × 3 in. × ⅝ in.	,,	42	15	0
12 in. × 4 in. × ⅝ in.	,,	73	15	0
10 in. × 5 in. × ⅝ in.	,,	73	15	0

The £.s.d. of OSAL★

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It's not the cost per gallon but the cost per yard that counts

On this basis Tricosal, which waterproofs a square yard of 3/1 sand and cement renderings ¾ in. thick for only 3d., is the most economical as well as the most efficient additive. It waterproofs integrally and, being a liquid, mixes with the gauging fluid and is evenly distributed throughout the mix.

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HARDENER·PROOFER

Tricosal is now available in non-returnable containers.

For 30 years or more Tricosal has been specified by leading Architects not only for waterproofing but for hardening cement and concrete and increasing their resistance to oils and acids. Send for Information Leaflet No. 1.

★ *OSAL is the generic name for the products of A. A. Byrd & Co. Ltd.—" Florosal " for Surface Hardening and protection of Concrete, Stone and Cement—" Neocosal " for Surface Waterproofing of Brick, Concrete and Stone, and " Tricosal ". Literature on each individual product is available from*

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Over one million feet of DURAJOINT have been used in concrete structures all over the world – and there's more going in every day.

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STONEWARE DRAIN PIPES, etc.

The following are the percentages to be added to the Revised Standard List (Nov., 1956) prices delivered London Area.

Delivered ex Merchants Wharf or Depot.

	Over 2 tons		Over 100 pieces Under 2 tons		Under 100 pieces Under 2 tons	
Best Quality ...		−10%		+5%		+12½%
BSS Best Quality...	+10%	−10%	+10%	+5%	+10%	+12½%
Tested Quality ...	+37½%	−10%	+37½%	+5%	+37½%	+12½%
BSS Tested Quality	+47½%	−10%	+47½%	+5%	+47½%	+12½%

		£	s.	d.
3 in. Land Drain Pipes (in 12 in. lengths)	per 1,000	11	18	6
4 in. do. do.	,,	15	19	6
6 in. do. do.	,,	32	19	0
9 in. do. do.	,,	62	9	0

DAMP COURSE

		£	s.	d.
Hessian base bitumen 7 lb. per yd. sup. in 24 ft. rolls cut to wall widths in lots of £6 value and over delivered London area	per yd. sup.		3	5
Asbestos base do. 7 lb. per yd. sup. do. do.	,,		5	2
Lead lined bitumen do. 9½ lb. per yd. sup. do. do.	,,		12	2
18 in. × 9 in. British damp course slates	per 1,000	43	8	11
14 in. × 9 in. do. do.	,,	32	8	2
9 in. × 9 in. do. do.	,,	18	18	9
18 in. × 4½ in. do. do.	,,	19	19	9
14 in. × 4½ in. do. do.	,,	15	18	3
9 in. × 4½ in. do. do.	,,	10	14	3

STONE

		£	s.	d.
Bath Stone				
Monks Park	per ft. cube		10	3
St. Aldhelm Box Ground	,,		11	6
Delivered in railway trucks at South Lambeth B.R. Western Region.				
Doulting Stone Random Blocks. Delivered London area	,,		10	10
Beer Stone. Delivered London area	,,		10	6
Portland Stone—				
Brown Whitbed in random blocks, 20 ft. average delivered in railway trucks at Nine Elms, B.R. Southern Region	,,		9	10
Yorkshire Stone—Blue Robin Hood Quality. Delivered to site London in 6-ton lots.				
9 in. × 3 in. Rubbed, weathered, throated and stolled cills	per ft. cube	4	5	10
12 in. × 6 in. do. do. do.	,,	3	1	2
12 in. × 3 in. Plain coping, twice throated	,,	2	7	6
12 in. × 3 in. Weathered and twice throated coping	,,	3	3	3
14 in. × 6 in. do. do. do.	,,	2	17	0
4½ in. × 9 in. Plinth rubbed on top and face ...	,,	2	11	0
3 in. sawn two sides Slabs, random sizes ...	per ft. sup.		9	1
Templates and Cover Stones, 3 in., 4 in. and 6 in. thick, edges coped for rendered brickwork ...	per ft. cube	1	11	3
do. do. fair one edge for fair faced brickwork	,,	1	17	0
Hard York—				
12 in. × 2 in. Square Steps, rubbed on top and edge	per ft. run		11	0
14 in. × 3 in. Round-nosed Steps, rubbed on top and front	per ft. cube	2	18	3
12 in. × 6 in. Plain Steps, rubbed top and front	,,	2	11	0
2 in. Rubbed and Jointed Paving, given sizes ...	per ft. sup.		10	3
2 in. Sawn Paving, edges squared, in random sizes	per yd. sup.	3	12	0

TILES AND PANTILES

Delivered London area by road in 6 tons or over per 1,000.

	£	s.	d.
Machine-made Pantiles and French pattern Tiles from Lincolnshire district	29	19	0
Hand-made Pantiles Berkshire district	55	18	0
Hand-made Double Roman Bridgwater district ...	64	4	1
Hand-made 10½ × 6½ tiles Berkshire district	15	18	3
Machine-made 10½ × 6½ Staffordshire district	15	2	6
Hand-made Hip and Valley tiles per doz.	1	11	10
Machine-made Hip and Valley tiles do.	1	10	1
Concrete tiles 10½ × 6½	8	10	0
do. Interlocking (49S)	19	16	6

NOTE.—Breakage in transit, purchasers' responsibility.

SLATES

First-quality Slates from Penrhyn or Portmadoc, carriage paid in full truck loads to London Rate station. Per 1,000 actual.

	£	s.	d.
24 × 12	155	10	0
22 × 12	123	10	0
22 × 11	111	10	0
20 × 12	104	10	0
20 × 10	102	0	0
18 × 10	69	10	0
18 × 9	61	0	0
16 × 10	54	8	10
16 × 8	42	12	4

NOTE.—Breakage in transit, purchasers' responsibility.

TIMBER

				£	s.	d.
Softwood						
Joinery quality		Ex Wharf	per standard	£115 to £140		
Carcassing quality		do.	,,	£94 — £98		
1 in. Tongued and Grooved Flooring		do.	,,	£110	0	0
Hardwood						
Mahogany—	African S.E.	do.	per ft. cube	1	10	0
do.	Honduras S.E.	do.	,,	3	5	0
Oak	European S.E.	do.	,,	2	10	0
do.	Japanese S.E.	do.	,,	3	0	0
do.	English Logs sawn ...	do.	,,	2	0	0
Teak	8 in. average S.E. ...	do.	,,	3	17	6
Walnut	African Logs sawn ...	do.	,,	1	2	6

DOORS (in Lots I–II)

Delivered London area.

		£	s.	d.
1½ in. 4 Horizontal Panel. Pattern 4 in. deal				
2 ft. 0 in. × 6 ft. 6 in.	each	1	16	0
2 ft. 3 in. × 6 ft. 6 in.	,,	1	17	6
2 ft. 6 in. × 6 ft. 6 in.	,,	1	18	6
2 ft. 9 in. × 6 ft. 6 in.	,,	2	0	6
2 in. do. but top panel open. Pattern 4 × G in deal				
2 ft. 6 in. × 6 ft. 6 in.	,,	2	9	0
2 ft. 9 in. × 6 ft. 6 in.	,,	2	11	6
2 in. 2 Panel top panel open. Pattern 2 × G in deal				
2 ft. 6 in. × 6 ft. 6 in.	,,	2	3	0
2 ft. 9 in. × 6 ft. 6 in.	,,	2	5	0

SUNDRIES

Delivered London area.

		£	s.	d.
1 in. Wood Wool Slabs 6 ft. 0 in. × 2 ft. 0 in. in quantities of 1 ton (89 yds. to 1 ton)	per yd.		6	2
1½ in. do. (67 yds. to 1 ton)	,,		8	0
2 in. do. (52 yds. to 1 ton)	,,		9	9½
2½ in. do. (45 yds. to 1 ton)	,,		11	3
3 in. do. (39 yds. to 1 ton)	,,		12	7½
Quantities under 1 ton add 1d. per ½ in. of thickness.				
½ in. imported insulation Board, quantities over 5,000 sq. ft.	per 100 sq. ft.	2	2	6
¼ in. Hardboard do.	,,	1	17	6
3/16 in. do. do.	,,	2	4	6
1/16 in. Asbestos Flat Building Sheets	per yd. sup.		4	3½
¼ in. do. do. do.	,,		6	0
Roofing Felt 1-ply	,,		1	9
do. 2-ply	,,		2	2½
Best Scotch Glue in slabs	per ½ cwt.	5	8	0
do. pearl	,,	5	8	0
Croid Glue	28 lb.	2	6	0
Cut Nails 3 in. (1-ton lots)	per ton	78	10	0
do. 4 in. and up (1-ton lots)	,,	75	0	0
Wire Nails 3 in. (4-cwt. lots)	per cwt.	3	13	5
do. 4 in. and up (4-cwt. lots)	,,	3	12	10

METALS

STEEL JOISTS, ETC.

		£	s.	d.
Basis Joists— 6 in. × 5 in., 8 in. × 5 in., 8 in. × 6 in., 10 in. × 6 in., 12 in. × 6 in., plain cut to lengths delivered London area	per ton	47	15	0
Extra for sizes				
3 in. × 1½ in. 4 in. × 1¾ in.	,,	3	10	0
3 in. × 3 in.	,,	2	10	0
4 in. × 3 in.	,,	2	5	0
10 in. × 4½ in.	,,	1	10	0
5 in. × 2½ in. 5 in. × 3 in.	,,	1	15	0
4¾ in. × 1¾ in.	,,	3	5	0
5 in. × 4½ in. 7 in. × 3½ in. 13 in. × 5 in. ...	,,		15	0
6 in. × 3 in. 24 in. × 7½ in.	,,	2	0	0
6 in. × 4½ in. 7 in. × 4 in. 8 in. × 4 in. 9 in. × 4 in. 10 in. × 5 in.	,,	1	5	0
12 in. × 5 in. 22 in. × 7 in.	,,	1	0	0
9 in. × 7 in. 10 in. × 8 in. 12 in. × 8 in. 14 in. × 5½ in. 14 in. × 6 in. 14 in. × 8 in. 15 in. × 5 in. 15 in. × 6 in. 16 in. × 6 in. 16 in. × 8 in. 18 in. × 6 in. 18 in. × 7 in. 18 in. × 8 in. 20 in. × 6½ in. 20 in. × 7½ in.	,,		10	0
Steel angles average price	,,	48	15	0
Steel tees average price	,,	49	15	0
Fabricated work delivered London— R.S. Joists cut and fitted	,,	64	15	0
Compound girders	,,	69	5	0
Stanchions	,,	74	15	0
Compound stanchions	,,	79	5	0
In Roof Work—Trusses and Purlins	,,	89	0	0
Average prices not for awkward work.				
Angle cleats and ⅝ in. and ¾ in. and ⅞ in. bolts average price London area	per cwt.	5	10	0

FERRO-CONCRETE BARS

		£	s.	d.
Mild Steel Ferro-Concrete bars British manufacture to BSS785 ex London Stock 1 in. diam., and upwards	per ton	49	10	0
¼ in. diam.	per ton extra	8	12	6
3/16 in. do.	,,	6	12	6
⅜ in. do.	,,	4	12	6
½ in. do.	,,	3	2	6
⅝ in. do.	,,	1	10	0
⅞ in. and ¾ in. diam.	,,		15	0

MILD STEEL TUBES

Tubes to BSS 1387—1957 and Fittings. *Revised* list prices and following discounts :

Galvanised Tube—	Under 1 ton	Over 1 ton	W.I. Fittings	Malleable Fittings
Light	−39½%	−41%	Light −26½%	Malleable List
Medium	−35½%	−37%	Heavy −22½%	−18½%+40%
Heavy	−27½%	−29½%		
Black—				
Light	−50%	−51½%	Light −32½%	Malleable List
Medium	−46%	−47½%	Heavy −28½%	−18½%
Heavy	−38½%	−40%		

C.I. HALF-ROUND GUTTERS

Delivered London per yd. in 6 ft. lengths.

	Gutters	Nozzles	Stop Ends
3 in.	4/0½	3/7	1/–
3½ in.	4/4½	3/11	1/–
4 in.	5/8	4/5	1/7
4½ in.	6/3	4/11	1/10
5 in.	6/11½	5/4	2/2

METALS—*continued*

C.I.O.G. GUTTERS

Per yd. in 6-ft. lengths :	Gutters	Nozzle	Stop Ends
3 in.	5/2½	4/8	1/3
3½ in.	5/10	4/8	1/7
4 in.	6/5	4/11	1/10
4½ in.	6/11½	5/8	2/2
5 in.	7/7½	6/5	2/6

C.I. RAIN-WATER PIPES

	Pipe	Bends	Branches
2 in.	8/7½	4/5	6/4
2½ in.	8/7½	4/11	8/6
3 in.	9/8½	6/2	9/2
3½ in.	11/0½	7/3	11/-
4 in.	12/9	8/9	13/1

L.C.C. COATED SOIL PIPE

2 in.	9/8½	7/7	9/2
2½ in.	10/4	8/5	11/5
3 in.	11/7	9/2	13/7
3½ in.	12/11½	11/5	15/10
4 in.	14/9	12/9	18/8

Above prices for gutters, rain-water and soil pipes for under 5-cwt. lots. only. Lots over 5 cwt. see List No. 3300, dated February 1, 1955, plus 25% and tonnage allowance. 4-ton lots 5%, 2-ton lots 2½%.

L.C.C. COATED DRAIN PIPES

In 9-fts.:	cwt. qt. lb.	Per yd.	Bends	Branches
4 in.	1 1 17	35/3	23/9	42/-
6 in.	2 0 1	51/7	63/9	101/-

ASBESTOS RAIN-WATER PIPES AND FITTINGS

All less 17½% discount.		2 in.	2½ in.	3 in.	4 in.
Pipes, 6-ft. lengths	per yd.	4/7	4/10½	5/11	7/10
Shoes	each	3/-	3/3	3/10	5/2
Single Branches	,,	4/8	5/6	6/7	9/2
Bends, square or obtuse	,,	3/3	3/7	4/8	6/7
Swan Necks, 4½ in. proj.	,,	3/7	4/8	5/2	7/3
do. 6 in do.	,,	3/10	5/2	5/10	7/10

ASBESTOS O.G. GUTTERS AND FITTINGS

		4 in.	4½ in.	5 in.	6 in.
Gutters, 6-ft. lengths	per yd.	4/4	4/9½	5/9	6/10½
Drop ends	each	3/6	4/-	4/9	5/5
Stop ends	,,	1/1	1/2	1/3	1/5
Angles	,,	3/7	4/1	5/-	5/10
Nozzles	,,	3/6	4/-	4/9	5/-
Union Clips	,,	1/9	2/1	2/6	2/11

ASBESTOS HALF-ROUND GUTTERS AND FITTINGS

	per	3 in.	4 in.	4½ in.	5 in.	6 in.
Gutters, 6-ft. lengths	yd.	3/0½	3/7½	3/8½	4/4½	6/1
Drop ends	each	2/6	3/-	3/3	3/7	5/2
Stop ends	,,	1/-	1/1	1/2	1/3	1/5
Angles	,,	2/10	3/3	3/7	3/10	5/2
Nozzles	,,	2/6	3/-	3/3	3/7	5/2
Union Clips	,,	1/3	1/4	1/5	1/7	2/5

	Per ton basis in London £ s. d.
Iron—Staffordshire Crown Merchant Quality	52 17 6
Mild Steel Bars	47 8 6
Mild Steel Hoops	49 0 0

	Ex Merchant's Stock per ton Two-ton lots £ s. d.
Soft Sheets C.R. and C.A.—	
20 gauge	62 7 6
24 gauge	64 17 6
26 gauge	67 17 6
Galvanised Corrugated Sheets, 6-ft. to 9-ft. —	
20 gauge	70 18 0
24 gauge	74 8 0
26 gauge	79 13 0
Galvanised Flat Sheets C.R. and C.A. :	
20 gauge	72 8 0
24 gauge	75 18 0
26 gauge	81 3 0

ALUMINIUM AND ALUMINIUM ALLOYS

(Base Prices)		£ s. d.
Sheet BS 1740 S1C 18 SWG (36 in. wide)	per lb.	3 0
Sheet BS 1470 NS3 Utility 18 SWG (36 in. wide)	,,	2 11
Coiled strip BS 1470 S1C 18 SWG (24 in. wide)	,,	2 11
Coiled strip BS 1470 NS3 Utility 18 SWG (24 in. wide)	,,	2 10½
Coiled strip for flashing, high purity, 22 SWG (12 in wide)	,,	3 1½
Corrugated sheet BS 1470 NS3 Circular Profile 8 ft. × 32 in. × 20 SWG	per sheet	1 13 6
Corrugated sheet BS 1470 NS3 Industrial... Profile 8 ft. × 31¾ in. × 20 SWG	,,	1 19 3
Corrugated sheet BS 1470 NS3 Mansard... Profile 8 ft. × 31¾ in. × 20 SWG	,,	1 12 7
Extruded section BS 1476 E1C simple moulding	per lb.	2 10
Extruded section BS 1476 E1C 1 in. diam. round	,,	2 7½
Extruded section BS 1476 HE10WP simple angle	,,	3 1½
Extruded section BS 1476 HE10WP 1 in. diam. round	,,	3 0½
Tubing BS 1471 T1C 1½ in. O/D × 20 SWG	,,	6 6½
Tubing BS 1471 HT19WP 1½ in. O/D × 20 SWG	,,	4 0½

PLUMBERS' BRASS WORK, etc.

Delivered in London area.

All per dozen	M.O.H. ½ in.	¾ in.	1 in.	1¼ in.	1½ in.	2 in.
Screwdown bib cocks Crutch head for iron	87/-	128/-	—	—	—	—
Toilet bib cocks for iron	109/-	158/5	—	—	—	—
Screwdown stop cocks for iron	66/-	95/9	188/-	363/-	522/6	917/6
do. with two unions for lead	89/-	132/-	234/4	472/-	623/6	1,389/6
Double nut boiler screws	18/8	26/5	47/6	48/6	67/-	93/6
Heavy Croydon ball valves	77/-	193/6	312/5	568/8	734/10	—
Plumbers' union brass lead to iron	19/6	23/6	38/6	52/10	70/6	165/-
	1¼ in.	1½ in.	2 in.	3 in.	3½ in.	4in.
Caps and Screws	33/-	40/8	59/6	92/5	118/10	155/3
Brass Sleeves	—	31/11	31/11	56/2	74/10	91/5
	1¼ × 6 lb.	1½ × 6 lb.	2 × 7 lb.	3 × 7 lb.		
Lead P. trap with brass cleaning screws	68/6	85/6	137/-	233/9		
Lead S. trap do. do.	82/9	102/9	168/3	302/3		

Solder :			s.	d.
Plumbers'	1 cwt. lots	320/-	14 lb. lots per lb.	3	7
Tinmen's	,, ,,	404/-	,, ,, ,,	4	5
Blow pipe	,, ,,	407/-	,, ,, ,,	4	6

COPPER TUBES AND SHEETS

Copper tubes BSS 659/1944 on the basic price of 29¾d. per lb. plus gauge and manufacturing extras as follows. Minimum quantities, 10 cwt.

	Extra d.	Total per lb.	d.	Approx. per ft.	d.
½ in. × 19 gauge	15½		45½		12½
¾ in. × 19 ,,	13¾	,, ,,	43½	,, ,,	17
1 in. × 18 ,,	12¼	,, ,,	42	,, ,,	26
1¼ in. × 18 ,,	11⅝	,, ,,	41¾	,, ,,	31½
1½ in. × 18 ,,	11⅜	,, ,,	41⅜	,, ,,	37¾
2 in. × 17 ,,	13¼	,, ,,	43	,, ,,	60½

Small Quantity extras :—

10 cwts. to 5 cwts.	plus ½d. per lb.
5 cwts. to 2 cwts.	,, 1d. ,,
2 cwts. to 1 cwt.	,, 2d. ,,

	£ s. d.
Rolled Copper sheets up to 48 in. wide, basic price plus gauge and manufacturing extras	286 10 0

ZINC

	£ s. d.
Sheet Zinc, 10 gauge (25 SWG), 5 cwt. lots upwards per cwt.	7 15 3
,, ,, 12 gauge (23 SWG), ,, ,, ,, ,,	7 14 9
,, ,, 14 gauge (21 SWG), ,, ,, ,, ,,	7 13 6

BRASS TUBES

Brass tubes, basic price, plus gauge and manufacturing extras per lb.	2 0½

LEAD SHEET AND PIPES

Basis selling price to one address in London or Home Counties :

		£ s. d.
Lead Sheet, English, 3½ lb. substance and upwards	per ton	109 0 0
,, Water Pipe, in coils	,,	111 5 0
Lead Soil Pipe, 10 ft. or over 2 in. to 4 in. in dia.	,,	112 15 0
,, ,, ,, over 4 in. dia.	,,	114 15 0
,, Gas or Untinned Compo pipe	,,	112 15 0

5 cwt. lots and over less 6d. per cwt. off basic prices.

Extras over Basis for quantities under 5 cwt.:

3 cwt. and under 5 cwt.	per cwt.	4 0
1 cwt. do. 3 cwt.	,,	6 0

Smaller quantities than 1 cwt. priced specially.

Supplying sheet lead and lead pipe to less than basis weights and cutting to sizes less than basis charged extra according to current trade schedule.

Allowance for Old Lead, collected, £63 0s. 0d. per ton weighed at buyer's works.

PLASTER, etc.

		£ s. d.
Coarse Pink in 1-ton loads and over delivered on site	per ton	8 4 6
do. White do. do. do.	,,	8 14 0
Sirapite Coarse BSS 1191 Class C do.	,,	8 15 9
do. Fine do. do. do.	,,	9 3 3
do. Browning BSS 1191 Class B do.	,,	8 15 9
do. Board Finish do. do.	,,	8 15 9
Blue Lias Lime, in 6-ton loads	,,	6 14 6
Hydrated Lime (Grey), in 6-ton loads	,,	5 10 0
do. (White) do.	,,	6 0 0
Lump Lime (Grey) do.	,,	5 7 0
do. (White) do.	,,	5 14 6
White Keen's or Parian Cement, in 1-ton loads	,,	11 19 3
Pink Keen's or Parian Cement, in 1-ton loads	,,	11 14 0
Granite Chips, in 6-ton loads	,,	2 5 3
Hair	per cwt.	4 17 6
Gypsum Plaster Lath or Base Board, ⅜ in. thick, 600 yds. and over in one delivery. Delivered site	per yd.	2 3½
1,200 yds.	,,	2 2½
do. Insulating do. ⅜ in. thick, 600 yds. and over in one delivery. Delivered site	,,	2 9
1,200 yds.	,,	2 9
Gypsum Plaster Wall Boards, 3 and 4 ft. wide 6 to 12 ft., ⅜ in. thick, 600 yds, and over in one delivery. Delivered site	,,	2 6½
1,200 yds.	,,	2 5½
do. Insulating do. ⅜ in. thick, 600 yds. and over in one delivery. Delivered site	,,	3 0
1,200 yds.	,,	3 0

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BERLINIA—a pinkish colour with an unusual purplish stripe — a most attractive hardwood for furniture, fittings and panelling. Available in quarter sawn boards 1″—3″ thick, also in veneer.

DOUSSIE — considered one of the most stable of all hardwoods — in seasoning an average tangential shrinkage of only 1.5% occurs — compared with 2.5% for Teak and Afrormosia—up to 9.5% for European Beech. Doussie is therefore well suited for windows, frames, staircases, doors and exterior cladding, also for floors laid over underfloor heating systems. Available in 1″—3″ thick.

QUARTER SAWN NIGERIAN GOLDEN WALNUT—cut on the quarter from large selected logs, kilned and then re-cut into square edged boards producing a most attractive hardwood combining decorative interest with perfect reliability. Available 1″—3″ thick.

QUARTER SAWN SAPELE — produced in similar fashion, kiln dried, giving greatly improved reliability and a decorative effect comparable to veneer. Available in 1″—3″ thick.

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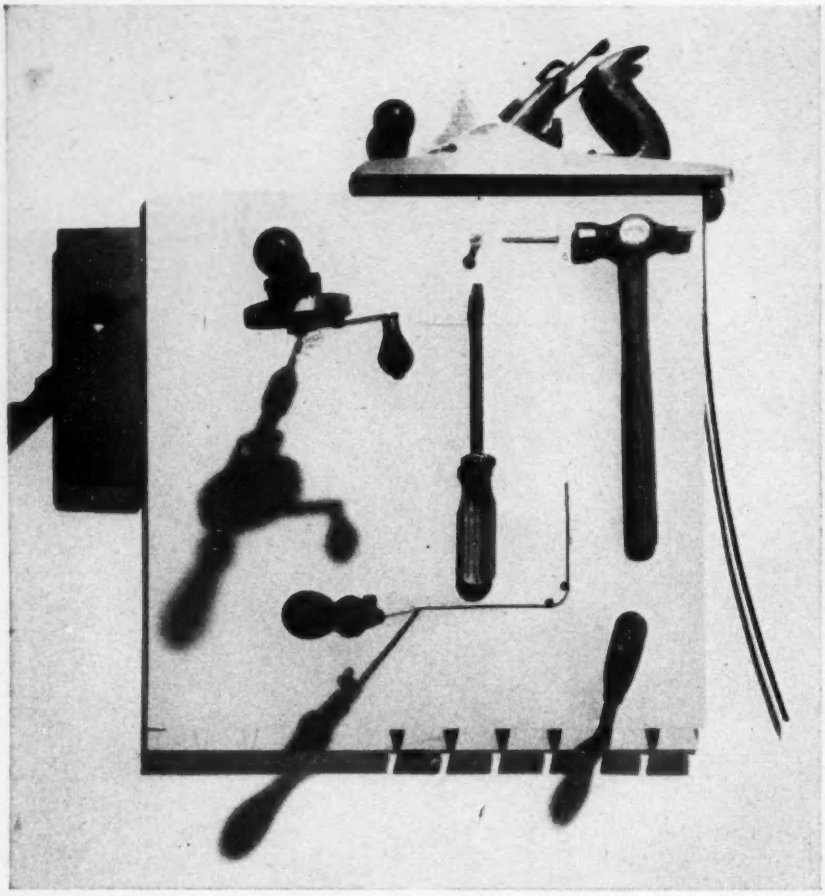

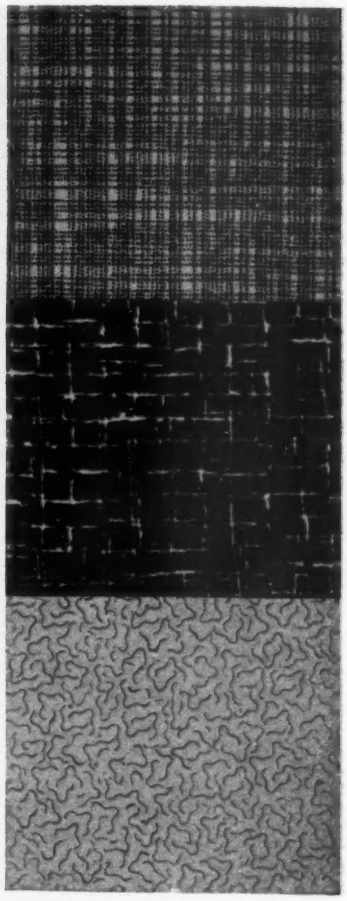

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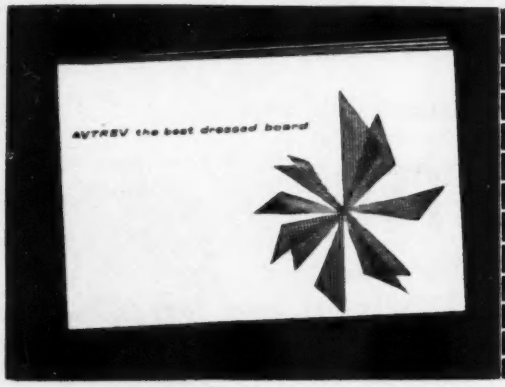

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B6 (BLOCK CAPITALS, PLEASE)

PAINTS AND DISTEMPER

Delivered London area.		£	s.	d.
Ceiling Distemper	per cwt.	1	7	6
Washable Distemper	,,	5	15	0
Gloss Paint	per gal.	2	16	0
Super Snowcem cement paint (in 1 cwt. drums)	per cwt.	4	0	0
LEAD PRODUCTS AND OILS				
Ground White Lead, in 1 cwt. kegs	per cwt.	8	7	6
Genuine White Lead Paint, 1-19 gal. lots in 1 gal. tins	per gal.	3	6	6
Genuine Red Lead, Dry, 1 cwt. keg (10 ton lots)	per cwt.	5	12	6
do. do. do. (1 cwt. lots)	,,	6	19	0
Genuine Linseed Oil Putty, 1 cwt. keg	,,	2	13	6
Size XD quality 28 lb	per tin		9	0
Raw Linseed Oil (5 gal.) drums extra	per gal.		19	2
Boiled Linseed Oil (5 gal.) do.	,,		20	0
SUNDRIES				
Turpentine substitute (5 gal.) drums extra	,,		5	4½
do. do. (40 gal.) do.	,,		4	8½
Solignum, Brown (5 gal. cans) Exterior	,,		8	8
Creosote (40 gal. barrels)	,,		2	3
Paste Powder (1 lb. packets)	per lb.		2	4
White Lining Paper	per piece		1	2

VARNISHES, etc.

Delivered London area.		£	s.	d.
Oak Varnish, Outside or Inside	per gal.	2	0	0
Oal Pale Copal do. do.	,,	2	0	0
Hard Drying Oak for Inside	,,	2	5	0
Crystal Paper Varnish do.	,,	2	8	0
Eggshell Flat Varnish do.	,,	2	2	0
Finest Carriage Varnish	,,	2	7	0
Front Door Varnish	,,	2	4	0
Japan Gold Size	,,	1	12	0
Black Japan	,,	1	16	0
Brunswick Black	,,	1	12	0
Berlin Black	,,	1	10	0
Terebene	,,	1	12	0
Knotting (1 gal. bottles free)	,,	1	15	0
French and Brush Polish (do.)	,,	1	15	0.

GLASS

Delivered London area.		s.	d.
18 oz. Sheet Glass Ordinary Glazing Quality— Cut Sizes	per ft. sup.		9½
24 oz. do. do. do. do.	,,		11½
26 oz. do. do. do. do.	,,	1	2½
32 oz. do. do. do. do.	,,	1	6½
⅛ in. Rolled Plate	,,	1	2½
3/16 in. Rolled and Rough Cast	,,	1	5
¼ in. do. do.	,,	1	5½
⅛ in. Figured Rolled and Cathedral, Standard patterns—			
White Group 1	per ft. sup.	1	2½
do. Group 2	,,	1	8½
do. Standard Tints	,,	2	1½
do. Special Tints	,,	7	3
⅛ in. Pinstripe, Hammerstripe, Reeded, Reedlyte and Luminating Group 3	,,	1	7½
¼ in. Wired Cast	,,	1	9½
¼ in. Georgian Wired Cast	,,	1	9½
Hollow Glass Blocks—			
P.B.2 Cross reeded 5¾ × 5¾ × 3⅞ in.	each	3	6
P.B.3 Broad reeded 7¼ × 7¼ × 3⅞ in.	,,	5	4
P.B.32 Cross reeded 7¼ × 7¼ × 3⅞ in.	,,	5	4
P.B.4 Prismatic 7¼ × 7¼ × 3⅞ in.	,,	6	0
P.B.5 Flemish 7¼ × 7¼ × 3⅞ in.	,,	5	4
P.B.6 Boomerang 7¼ × 7¼ × 3⅞ in.	,,	6	0
Half Size Blocks—			
P.B.32 Cross reeded 7¼ × 3¾ × 3⅞ in.	,,	4	6
Radiused Corner Blocks to match up with—			
P.B.2 Cross reeded	,,	7	6
P.B.3 Broad reeded	,,	9	0
P.B.32 Cross reeded	,,	9	0
P.B.2, P.B.3, P.B.32 are also supplied in Light Diffusing Blocks at same price.			
¼ in. Polished Plate Glass, G.G. quality—			
In plates not exceeding 2 ft. sup.	per ft. sup.	4	7
,, ,, ,, 5 ft. sup.	,,	5	7
,, ,, ,, 45 ft. sup.	,,	6	9
,, ,, ,, 100 ft. sup.	,,	7	4
¼ in. Polished Plate, extra sizes, *i.e.*, plates exceeding 100 ft. sup. or 160 in. one way or 96 in. both ways. G.G. quality—Not exceeding 135 ft. sup. or 240 in. one way or 130 in. both ways	,,	10	9
Not exceeding 180 ft. sup. or do.	,,	14	3

Plates exceeding 180 ft. sup. prices on application.
Substances other than ¼ in. Polished Plate at Special Prices.
Quantity Tariff—Sheet and Sundry Glass.

The following prices apply to minimum quantities of one size and one pattern delivered by the manufacturer to one site at one time.

Description of Glass	Minimum quantity	per ft. sup. s.	d.
18 oz. sheet O.Q.	3,000		6½
24 oz. ,, ,,	2,000		8½
26 oz. ,, ,,	2,000		11
32 oz. ,, ,,	2,000	1	2½
⅛ in. Rolled Plate	1,000		10½
⅛ in. Figured Rolled and Cathedral Standard Patterns, White Group 1	1,000		10½
do. Group 2	1,000	1	2
⅛ in. Pinstripe, Hammerstripe, Reeded, Luminating and Spotlyte Group 3	1,000	1	2
3/16 in. Rolled Plate or Rough Cast	2,000	1	1
¼ in. do. do.	2,000	1	1½
¼ in. Wired Cast, Hexagonal	2,000	1	4½
¼ in. Georgian Wired Cast	2,000	1	4½

THE BUILDER RATES OF WAGES

AS FROM APRIL 18, 1960. **(Every endeavour is made to ensure accuracy but we cannot be responsible for errors.)**

KEY TO SCHEDULE OF GRADE RATES.

Grade Classification	A	A1
Craftsmen	4/11½	4/11
Labourers	4/4	4/3½

Town	*Grade*
Aberavon	A
Aberdare	A
Abergavenny	A
Abingdon	A1
Accrington	A
Addlestone	A
Afan Valley	A
Aldeburgh	A1
Aldershot District	A1
Alfreton UD	A
Alnwick UD	A
Altrincham	A
Amble	A
Ambleside	A
Amersham	A
Ammanford	A
Andover	A1
Anglesey, Isle of	A
Ardingly	A1
Arundel	A1
Ascot	A1
Ashbourne RD	A1
Ashbourne UD	A1
Ashby-de-la-Zouch UD	A
Ashby Woulds UD	A
Ashford (Kent)	A1
Ashford (Middlesex)	A
Ashington UD	A
Ashtead	A
Ashton-under-Lyne	A
Aspatria and Brayton	A
Atherstone RD	A
Attleborough	A1
Axminster	A1
Aylesbury	A1
Aylsham	A1
Bagshot	A1
Bakewell UD	A1
Banbury	A1
Bangor	A
Barnard Castle UD	A
Barnoldswick UD	A
Barnsley CB	A
Barnstaple	A1
Barrow-in-Furness	A
Barrow-upon-Soar RD (part Thrussington)	A1
Barry	A
Basford RD (ex. Willough-by-on-the-Wolds A1)	A
Basingstoke	A1
Bath	A
Batley MB	A
Baxterley	A1
Beaconsfield District	A
Bearl	A
Beccles	A1
Bedale RD	A
Bedford	A
Bedlington	A
Bedlingtonshire UD	A
Bedwas	A
Beeston & Stapleford UD	A
Belper UD	A
Belton	A
Berkhamsted	A
Berrington	A
Berwick Borough	A
Beverley MB	A
Bewdley MB	A
Bexhill-on-Sea	A1
Bideford	A1
Biggleswade	A1
Billericay	A
Billing	A
Billingham UD	A
Bilsthorpe	A
Bilston MB	A
Birchington	A1
Birkenhead	*
Birmingham CB	†A
Bishop Auckland UD	A
Bishop's Stortford	A
Bishops Castle MB	A1
Bispham	A
Blackburn	A
Blackpool	A
Blackwell RD	A
Blandford	A1
Blaydon UD	A
Blidworth	A
Blyth B.	A
Bodmin	A1
Bognor Regis	A1
Boldon UD	A
Bolsover UD	A
Bolton	A
Boston MB	A
Bourne End	A
Bournemouth District	A
Brackley MB	A1
Bracknell	A1
Bradford CB	A
Bradford-on-Avon	A1
Braintree	A1
Brandon & Byshottles UD	A
Brecon, Borough of	A1
Breconshire, County of	‡A1
Brent Knoll	A1
Brentwood	A
Bridgend	A
Bridlington MB	A
Bridlington RD	A
Bridgnorth MB	A
Bridgnorth RD	A1
Bridgwater	A1
Brierfield	A
Brighouse MB	A
Brighton & Hove	A
Bristol District	A
Broadstairs	A1
Bromsgrove UD	A
Broughton, Flint	A
Buckfastleigh	A1
Buckingham	A1
Buckley	A
Bungay	A1
Burnham-on-Crouch	A1
Burnham-on-Sea	A1
Burnley	A
Burton-on-Trent CB	A
Bury	A
Bury St. Edmunds	A1
Buxton	A
Byfleet	A1
Caernarvon	A
Caernarvonshire, Cnty. of	‡A
Calc'er Valley	A
Camberley District	A1
Cambridge	A
Cannock UD	A
Canterbury	A1
Cardiff	A
Cardiganshire, Cnty. of	‡A1
Carlisle	A

CURRENT RATES OF WAGES—Continued

Town	Grade
Carlton UD	A
Carmarthen—Borough of	A
Carmarthenshire, Cnty. of	A
Carnforth	A
Castleford UD	A
Caterham	A
Chapel-en-le-Frith	A
Chard	A1
Charmy Down	A
Chatham District	A
Chatteris	A1
Cheadle (Staffs) RD	A
Chelmsford	A
Cheltenham	A
Chepstow	A
Chertsey	A
Chester	A
Chester-le-Street UD	A
Chesterfield MB	A
Chesterfield RD	A
Chichester	A1
Chipping Norton	A1
Chipping Sodbury	A1
Chippenham (inc. Chippenham Within and Hardenhuish)	A1
Chorley	A
Cirencester	A1
Clacton	A1
Clay Cross UD	A
Cleethorpes MB	A
Clevedon	A1
Cleveleys	A
Clitheroe	A
Coalville UD	A
Cobham (Surrey)	A
Colchester	A
Colne	A
Colwyn Bay	A
Congleton	A
Consett UD	A
Conway	A
Corby UD	A
Cornwall, County of	‡A1
Corsham District	A
Coventry CB	A
Cranbrook	A1
Cranleigh	A1
Cranwell Aerodrome Site	A
Crawley	A
Crewe	A
Crewkerne	A1
Cromer	A1
Crook and Willington UD	A
Crowborough	A1
Cuckfield	A1
Cwmbran	A
Dalton-in-Furness	A
Darlington CB	A
Dartmouth	A1
Darwen	A
Daventry MB	A
Deal	A1
Denbigh Town	A
Derby CB	A
Devizes	A1
Devon, County of	‡A1
Dewsbury CB	A
Didcot	A1
Diss	A1
Doncaster CB	A
Dorchester	A1
Dorking	A
Dorset, County of	A1
Dover	A1
Dovercourt	A
Driffield UD	A1
Drigg & Carleton	A
Droitwich MB	A
Dudley CB	A
Dunstable	A
Durham B	A
Eastbourne	A
E. Glam. & Mon. Val.	A
East Grinstead District	A1
East Kesteven RD	A1
East Retford MB	A
Eastwood (Notts) UD	A
Ebbw Vale & District	A
Edenbridge	A1
Ely	A1
Epping	A
Evesham MB	A1
Exeter	A
Exmouth	A1
Fakenham	A1
Falmouth	A1
Fareham	A
Faversham	A1
Felixstowe	A1
Filey UD	A
Fleetwood	A
Flint MB	A
Folkestone	A1
Frinton	A1
Frome	A1
Gainsborough UD	A
Gateshead CB	A
Gillingham (Dorset)	A1
Gillingham (Kent)	A
Glastonbury & Street	A1
Glossop	A
Gloucester	A
Gloucestershire, Cnty. of	‡A1
Godalming	A1
Goole, MB	A
Goole RD	A
Gosport	A
Grantham MB	A
Gravesend	A
Great Yarmouth	A
Grimsby CB	A
Grimsby RD (part)	A1
Guildford District	A1
Halesowen MB	A
Halifax CB	A
Halstead	A1
Haresfield	A1
Harlow	A
Harpenden	A
Harrogate MB	A
Hartlepool B	A
Harwell	A1
Harwich	A
Haslemere	A1
Hastings	A1
Hatfield (Herts)	A
Havant	A
Haywards Heath	A1
Heanor UD	A
Hemel Hempstead	A
Henley-on-Thames	A1
Hereford	A1
Herefordshire, Cnty. of	‡A1
Herne Bay	A1
Hertford	A
Hexham RD	A
Hexham UD	A
Heysham	A
Heywood	A
Higham Ferrers MB	A
High Wycombe	A
Hinckley UD	A
Hitchin	A
Hoddesdon	A
Holywell	A
Horley	A1
Horncastle UD	A1
Horsham	A1
Horwich	A
Huddersfield CB	A
Hull	A
Hunstanton	A1
Huntington (Staffs)	A
Ilfracombe	A1
Ilkeston MB	A
Ilkley UD	A
Ipswich	A
Isle of Sheppey	A1
Isle of Thanet	A1
Isle of Wight	A1
Jarrow B.	A
Keighley MB	A
Kendal	A
Kenilworth UD	A
Kettering MB	A
Keynsham	A
Kidderminster MB	A
Kingskerswell	A1
King's Lynn	A1
Kingsteignton	A1
Kirkham	A
Knaresborough UD	A
Knutsford	A
Lancaster	A
Leamington MB	A
Leatherhead	A
Leeds CB	A
Leek UD	A
Leicester CB	A
Leighton Buzzard	A1
Leiston	A1
Leominster	A1
Letchworth	A
Lewes	A1
Lichfield MB	A
Lincoln CB	A
Liskeard	A1
Littlehampton	A1
Liverpool	*
Llandudno	A
Llanelly (inc. Llanelly RD)	A
Llanfairechan	A
Llangollen	A
London	*
Long Eaton	A
Looe	A1
Loughborough MB	A
Louth MB	A1
Lowestoft	A
Loxton	A1
Ludlow MB	A1
Ludlow RD	A1
Luton	A
Lyme Regis	A1
Lyneham (Devon)	A1
Lytham	A
Macclesfield	A
Maidenhead	A
Maidstone	A
Maldon (Essex)	A1
Maltby UD	A
Malton UD	A1
Malvern UD	A
Manchester	A
Manningtree	A1
Mansfield MB	A
March	A1
Margate	A1
Market Harborough RD	A1
Market Harborough UD	A
Market Rasen UD	A1
Martock	A1
Maryport	A
Matlock UD	A
Melksham	A1
Melton Mowbray UD	A
Merionethshire	A
Merthyr	A
Mexborough UD	A
Middlesbrough CB	A
Middleton	A
Middlewich	A
Mildenhall	A1
Milford Haven UD	A1
Minehead	A1
Monmouth—Borough of	A
Monmouthshire	A
Morecambe	A
Moreton Valence	A1
Morley	A
Morpeth B	A
Morpeth RD	A
Mundesley	A1
Nantwich	A
Neath & Valley	A
Nelson	A
Newark MB	A
Newbury	A1
Newcastle-upon-Tyne CB	A
Newcastle-under-Lyme	A
New Forest District	A1
Newmarket	A1
Newport, Mon.	A
Newport Pagnell	A1
Newquay	A1
Newton Abbott	A1
Normanton UD	A
Northallerton District	A
Northallerton UD	A
Northampton CB	A
North Shields	A
North Walsham	A1
Northwich	A
Norton Radstock	A1
Norwich	A
Nottingham CB	A
Nuneaton MB	A
Oakham RD	A1
Oakham UD	A1
Okehampton	A1
Oldham	A
Ongar	A
Ormskirk	A
Ossett & Horbury	A
Oswestry	A
Oundle UD	A1
Oxford	A
Oxted	A1
Padstow	A1
Paignton	A1
Par	A1
Pembrokeshire	A
Penmaenmawr	A
Penrith UD	A
Penzance	A1
Peterborough, Soke of (Eastern Regional portion)	A1
Petersfield	A1
Pickering	A
Plymouth	A
Pontefract MB	A
Pontypool & District	A
Pontypridd District	A
Porthcawl	A
Portishead	A
Portland Bill	A1
Portsmouth	A
Port Talbot	A
Preston	A
Princetown	A1
Pudsey MB	A
Pulborough	A1
Radnorshire, County of	‡A1
Ramsgate	A1
Raunds UD	A
Rayleigh	A
Reading	A
Redcar B	A
Redditch UD	A
Redhill & Reigate	A
Rhondda Valley	A
Richmond B (Yorks.)	A
Ripon MB	A
Rochdale	A
Rochester	A
Ross-on-Wye	A1
Rossendale Valley	A
Rotherham CB	A
Royston	A1
Rugby MB	A
Rugeley UD	A1
Rushden UD	A
Saffron Walden	A1
St. Albans	A
St. Austell	A1
St. Helens	A
St. Neots	A1
Salisbury City	A1
Salisbury Plain	A1
Sandy	A1
Sawbridgeworth	A
Saxmundham	A1
Scarborough MB	A
Scunthorpe MB	A
Seaford & Newhaven	A1
Selby UD	A
Sevenoaks	A
Shaftesbury	A1
Sheerness	A1
Sheffield MB	A
Shepton Mallet	A1
Sherborne	A1
Shipley	A
Shoeburyness	A
Shoreham	A
Shrewsbury MB	A
Sirhowy Valleys	A
Sittingbourne	A1
Skegness UD	A1
Skipton UD	A
Sleaford UD	A
Slough, Windsor & Eton District	A
Smethwick CB	†A
Smettisham	A1
Solihull B	A
Somerset, County of	‡A1
Southampton & Eastleigh	A
Southend-on-Sea District	A
Southport	A
South Shields CB	A
Southwold	A1
Spalding UD	A1
Stafford MB	A
Staines	A
Stamford MB	A
Stantonwick	A
Stevenage	A
Stockport	A
Stockton RD	A
Stockton-on-Tees B	A
Stoke-on-Trent CB	A
Stoke Orchard	A1
Stourbridge MB	A
Stouport UD	A
Stowmarket	A1
Stratford-on-Avon MB	A
Stroud (RD Area)	A1
Sunderland CB	A
Sunningdale	A1
Sutton Coldfield MB	A
Swadlincote UD	A
Swaffham	A1
Swanage District	A1
Swansea	A
Swindon District	A
Swinton UD	A
Tamworth MB	A
Taunton	A1
Tavistock	A1
Tenterden	A1
Teignmouth	A1
Tewkesbury	A1
Thames Haven	A
Thetford	A1
Thirsk RD	A
Thorpe Bay	A
Thurrock UDC (including Tilbury, Grays and the area north to Billericay)	A
Todmorden MB	A
Tonbridge	A1
Torquay	A1
Totnes	A1
Tring	A1
Trowbridge	A1
Truro	A1
Tunbridge Wells	A1
Tynemouth CB	A
Ulverston	A
Uppington (Salop)	A1
Uttoxeter RD	A1
Uttoxeter UD	A1
Wakefield CB	A
Wakefield RD	A
Walsall CB	A
Wallsend B	A
Walsden	A
Walton-on-Naze	A1
Ware	A
Warminster	A1
Warrington	A
Warwick MB	A
Wednesbury MB	A
Wellingborough UD	A
Wellington UD	A
Wellington (Somerset)	A1
Wells (Norfolk)	A1
Wells (Somerset)	A1
Welwyn	A
Welwyn Garden City	A
West Bromwich CB	A
Westbury	A1
Westcliff-on-Sea	A
Westerham	A1
West Hartlepool CB	A
Westmorland	A
Weston-super-Mare	A1
Weybridge	A
Weymouth (incl. Portland Bill, excl. Portland Stoneyards)	A1
Whitby UD	A1
Whitby RD	A1
Whitehaven	A
Whitley & Monkseaton UD	A
Whitstable & District	A1
Wickford	A
Widnes	A
Wigan	A
Wigton	A
Wilmslow	A
Wiltshire, County of	‡A1
Wimborne	A1
Wincanton	A1
Winchester	A1
Windermere	A
Wisbech	A1
Witham	A1
Withernsea UD	A
Woking	A1
Wokingham	A1
Wolverhampton CB	A
Wolverton District	A1
Woodbridge	A1
Woodhall Spa UD	A1
Woodstock	A1
Worcester CB	A
Workington	A
Worksop MB	A
Worthing	A1
Wrexham (incl. Cefn)	A
Wroughton	A1
Wylam	A
Wymondham	A1
Yate	A1
Yeovil Borough	A1
York CB	A
Ystalyfera	A

* For Birkenhead, Liverpool and London the rates are :—Craftsmen, 5s. 1d. ; Labourers, 4s. 5½d. In the case of London the rate beyond the 12-mile radius is : Craftsmen, 5s. 0½d. ; Labourers, 4s. 5d. † Plus 4d. per working day. ‡ This is the County rate and applies except where higher grades are stated.

NOTE.—Carpenters and Joiners providing own tools when employed in establishments operating under the Supplementary Rules for Woodworking Factories and Shops receive 2d. per day ; when employed on other building industry work, 4d. per day.

WOMEN'S RATES.—In all districts throughout the country the rate of wages for women engaged in craft processes is 4s. 1d. per hour. Women engaged on work other than craft processes, 3s. 9d. per hour.

For Building Trade Wages in Scotland, see page 174

Well, you can't blame a frisky youngster for being bored with this business-letter dictation stuff—even if he is seated upon TRINASCOLIN—linoleum flooring at its modern best, supplied and laid by Limmer & Trinidad.

Craftsman-installed TRINASCOLIN produces a colourful and resilient floor which is easily maintained. It is available in several thicknesses and a variety of plain and marbled colours. The Limmer & Trinidad Group of Companies are specialists in all types of Decorative and Industrial flooring and have unique technical and practical experience to offer.

Descriptive leaflets are available on request.

THE LIMMER & TRINIDAD LAKE ASPHALT CO. LTD.,
Trinidad Lake House, 232/242, Vauxhall Bridge Road, London, S.W.1.
Telephone: TATe Gallery 4388.

THE TRINIDAD LAKE ASPHALT CO. (NORTH WESTERN) LTD.,
India Buildings, Water Street, Liverpool 2. Central 8591.

THE WESTERN TRINIDAD LAKE ASPHALT CO. LTD.,
Asphalt House, St. Mary Street, Cardiff. Cardiff 24731.

MEMBERS OF THE

LIMMER & TRINIDAD

GROUP OF COMPANIES

celsius See THERMOMETER (person)

celt 1. *n.*, chisel-edged prehistoric tool (imaginary L.)

celt 2. *n.*, *(pl.)* peoples speaking or having spoken languages akin to that of the Gauls (Bretons, Cornish, Welsh, Irish, Manx, Gaels) *(sing.)* member of such people.

celtic (*adj.;* -ically) of the Cc. (Celtic fringe, the Scots, Irish, Welsh and Cornish, in relation to the U.K.) *(n.)* the Celtic language, celticism, celtomania, celtomaniac, celtophobe, celtophobia, *nn.* (L. Celta)

cement 1. *n.*, Substance made by calcining lime and clay, applied as paste and hardening into stony consistence, and used as material for floors and walls and tanks or as mortar: TUNNEL C. is particularly strong, rapid hardening, weather resistant c. Best C. *see* The Tunnel Portland Cement Company Limited, 105 Piccadilly, London W.1. GROsvenor 4100.

cement 2. *v.t.* Apply c. to, line or cover with c., unite (as) with c. To C. for best results *see* TUNNEL

cemetery *n.*, Burial ground other than churchyard (Gk. Koimao, put to sleep)

cenobite *see* COENOBITE

cenotaph (-ahf) *n.* Sepulchral monument to one whose remains are elsewhere.

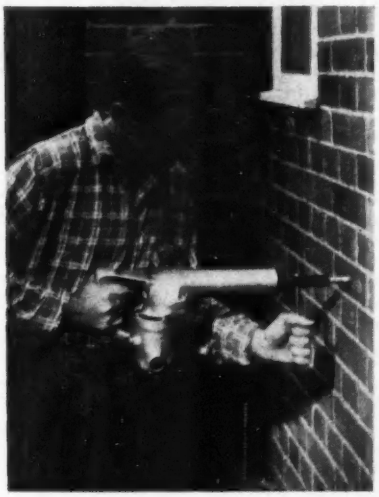
censer *n.* Incense-burning vessel. Cense *v.t.* adore or perfume with incense (INCENSE 2)

censor 1. *n.* Ancient-Roman supervisor of census and public morals; modern official examining plays, books, news, correspondence, etc.

TECHNICAL REVIEW

This Review of plant, equipment and materials—in most cases new or with new features—is intended to give brief details only of the products mentioned. Notices are based on data supplied by the manufacturers. Additional information and prices can be obtained either direct or by using the prepaid Readers' Service form which appears on page 140 of this issue. The form can be used for more than one inquiry.

1. Contractors' Plant



A SELF-DRILLING FASTENER for use in concrete and masonry is now in full production. It has eight diamond hard cutting teeth which provide, in effect, a new cutting tool for each hole. These fasteners seem very suitable for insertion into hard materials where drill trouble might ordinarily be expected. They can be installed with any air or electrically operated hammer or, if necessary, with an ordinary hammer and mandrel. Three sizes are available: ¼ in., ⅜ in. and ½ in. BSW.

Ramset Fasteners, Ltd.,
788a Finchley-rd., London, NW11.

2. Doors

What is known as over-the-top gear for GARAGE DOORS has some interesting features. The gear is for use on the average garage with a door opening of approximately 7 ft. 6 in. wide and 6 ft. 6 in. high. There is no obstruction of floor space either inside or out and the gear is unaffected by snow or ice. The component parts have been designed for ease in fitting; no tracks are required overhead and no adjustment is needed after erection.

High tensile cables carrying the counterweights are connected to a safety device of patented design. This automatically prevents the door from falling if, for instance, the cables break or the counterweights become disconnected.

The door is easy to operate and is silent in movement.

Coburn Engineers Ltd.,
Coburn Works, Peasmarsh, Guildford, Surrey.

A close-up of the safety device connected to the high tensile cables

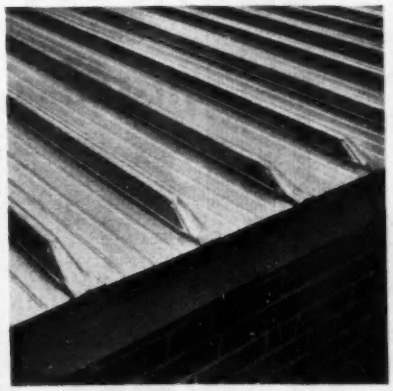
3. Miscellaneous

A new range of STEEL TAPE RULES have the measuring blades very clearly marked in black and red on a white enamelled background. One model incorporates an automatic return mechanism which operates by simply squeezing together the top and bottom of the casing. A smooth running action is achieved through the use of nylon bearings. A further model, with a ten foot long blade, has a spirit level and a square. The blades are available in widths of ½ in. and ¾ in.

Fisco Ltd.,
602 Seven Sisters-road, London, N15.

4. Roofing

A system of roofing with aluminium building sheet has now been developed to offer alternative treatments of eaves and ridge. It incorporates an INTEGRAL SEAL at eaves and ridge, or alternatively at eaves only. In each case the seal is produced by forming the end of the sheet, making the roof completely weather-tight and permitting a shallow pitch. Installation is not difficult. Once the roof sheets have been laid, a simple eaves flashing is hooked up into a slot formed by the folded end of the sheet and secured to the vertical wall; similarly a two-part adjustable ridge assembly is readily and securely clipped into place on the flanges of the roof sheets.



The folded end of the sheet at the eaves line

The seal at the eaves end has the advantage of improving the eaves line and further increasing the rigidity against wind load. It may also be preferred for siding, the sealed end giving a better finish to the base of the wall.

Northern Aluminium Co., Ltd.,
Banbury, Oxford.

Technical Publications

A medium-sized factory in the North of England could save over £400 a year in fuel costs if modern glazing techniques were installed. This is one conclusion drawn from 'DAYLIGHT WITH INSULATION,' a recently issued booklet by Thomas A. Markus, MA, MArch (MIT), ARIBA. In a detailed scientific study of the benefits of double glazing Mr. Markus maintains that life in a controlled climate in Britain today is not only possible but practical. With windows covering increasing areas of present-day buildings, more importance is being attached to ways of improving their performance. Double and multiple glazing is offered as the most important practical solution to the traditional weaknesses of the single pane in respect to heat, sound and humidity.

Well-illustrated with graphs, formulæ and straightforward methods of calculating the difference in heat loss between single and double glazing, Mr. Markus's work points to new techniques and economies being adopted in Britain today.

The booklet is available from Pilkington Brothers, Ltd., St. Helens, Lancashire.

* * *

A booklet, just published, contains a straightforward summary in question-and-answer form of the facts about fire in relation to FIBRE BUILDING BOARDS. It is designed to show that, if properly applied, these materials can be used safely and with confidence. In tests conducted by the Fire Research Station of the DSIR, which were concerned with the rate at which fire developed in furnished rooms with ceilings lined with various materials, fibre insulating boards treated to Class 1 of the Surface Spread of Flame Test, BS 476, gave 'flashover' times not significantly different from those obtained with non-combustible ceilings.

Copies of the booklet are available free of charge from FIDOR, Stafford House, Norfolk-street, London, WC2.

* * *

The sixth edition of the Coke-Burning Appliances Handbook, issued by the Gas Council, 1 Grosvenor-place, SW1 (price 35s.), has regard to the impetus now given to the production of coke-burning appliances particularly suitable for replacement purposes under the Clean Air Act. The new designs now in course of production have warranted the reintroduction of the handbook in loose-leaf form, and it is intended to support this issue with a loose-leaf circulation service to cover new approvals.

Trade News

Change of Address

MESSRS. AYGEE LTD. have transferred their metal window and curtain walling division from Perivale to new and much larger premises at Century Works, Havelock-road, Southall, Middlesex (tel.: Southall 6441). The head office and glazing divisions remain at Century House, 100 Westminster Bridge-road, SE1 (tel.: Waterloo 5600).

Copper and Modern Architecture

THE USE OF COPPER as a roofing material has not been entirely superseded by modern techniques. The material is often specified by architects, notably by Sir Basil Spence for the roof of Coventry Cathedral. A particularly interesting aspect of all this is that these modern copper roofs will eventually display the beautiful pale green patina common to the material, in domes, hyperbolic paraboloids, and other geometrical shapes. The aesthetic as well as the technical and functional aspects of copper and its place in modern architecture, are discussed in the current issue of 'Copper,' a well-produced and informative journal published by the Copper Development Association.

Warwick Builder's New London Offices

THE CONTINUED EXPANSION of the Turriff Construction Corporation Ltd. and their associated companies has necessitated the concentration of all London interests. To this end they have acquired a newly constructed 11-storey office building situated on the Great West-road at Brentford, Middlesex, approximately one-mile west of the Chiswick flyover. This new headquarters will be concerned with the group's activities in London and Southern England; the main headquarters will continue to operate from Warwick.

Factory Purchase

WOLF ELECTRIC TOOLS, LTD., have arranged to purchase the Hanger-lane, London, W5, factory premises of Arrow Electric Switches, Ltd. They are expected to occupy the premises in the early months of 1961.

New Birmingham Office

FROM THE END OF July, the Birmingham office and depot of Pinchin Johnson and Co. will be at 18/22 Rotton Park-street, Birmingham, 16. The Midland manager of the company is Mr. H. V. Mahoney.

Service Division

CHASESIDE ENGINEERING CO., LTD., announce that as from August 1, all service matters relating to Lancashire and Yorkshire will now be dealt with from their Service Division, Philips-road, Blackburn, Lancashire.

Earth Moving Distributors

ABELSON & CO. (ENGINEERS) LTD., Sheldon, Birmingham, have now been appointed distributors for the sale of John Deere earth moving equipment. The equipment will also be offered for hire.

New Plastic Organisation

THE DELTA METAL CO., LTD., and Foster Brothers, Ltd., announce that 'Deltathene' and 'Deltaplast' polythene pipes are now to be produced and marketed by a new company—Foster Brothers Plastics, Ltd. The new company will embrace all the activities of the plastic divisions of these two companies.

Inquiry Bureau

Right of Support from Adjoining Building

QUESTION: My semi-detached house, built some eighty years ago though still in first-class condition, relies for permanent roof support on beams projecting from the adjacent house. If these beams or their support is removed my own roof will collapse. A developer who has recently purchased my neighbour's house intends to demolish it and to shore up my property. Am I entitled to permanent support or is the new owner committed only to providing me with support according to his own requirements, in this particuular case temporary.

F. W. L.

ANSWER: There is no automatic rule that one building has a right of support from the adjoining building, but such a right of support will usually be acquired after 20 years. The form of construction of adjoining buildings may be such as to give rise to the assumption that it was intended from the very start that each should have the right of support from the other. In the present case it can be assumed that there is a right of support.

The owner of a building enjoying a right of support is not entitled to insist upon any particular method. The duty of the owner of the servient tenement is to refrain from doing anything which would interfere with the support, but he is at liberty to substitute one method for another. Applying these principles to the present case, I consider that 'F. W. L.' should get expert advice as to whether ordinary shoring-up will be sufficient and if not, what is required. If this shows that something more than ordinary shoring is necessary, 'F. W. L.' can then require the owner of the servient tenement to do whatever is necessary. If the latter refuses he would have good ground for seeking an injunction.

I have considerable sympathy with the point that the house provided permanent support whereas the strutting would only be temporary; but this is not, in my opinion, strictly relevant. It appears to be well settled law that the owner of the servient tenement is not obliged to carry out repairs in order to maintain a right of support. The law on the subject was explained by Sir Wilfred Greene, Master of the Rolls, in Bond v. Nottingham Corporation (1940), in the following terms:

'The nature of the right of support is not open to dispute. The owner of the servient tenement is under no obligation to repair that part of his building which provides for his neighbour. He can let it fall into decay. If it does so, and support is removed, the owner of the dominant tenement has no cause for complaint. On the other hand, the owner of the dominant tenement is not bound to sit by and watch the gradual deterioration of support constituted by his neighbour's building. He is entitled to enter and take the necessary steps to ensure that the support continues by effecting repairs, and so forth, to the part of the building which gives the support. But what the owner of the servient tenement is not entitled to do is, by an act of his own, to remove the support without providing an equivalent.'

A. E. T.

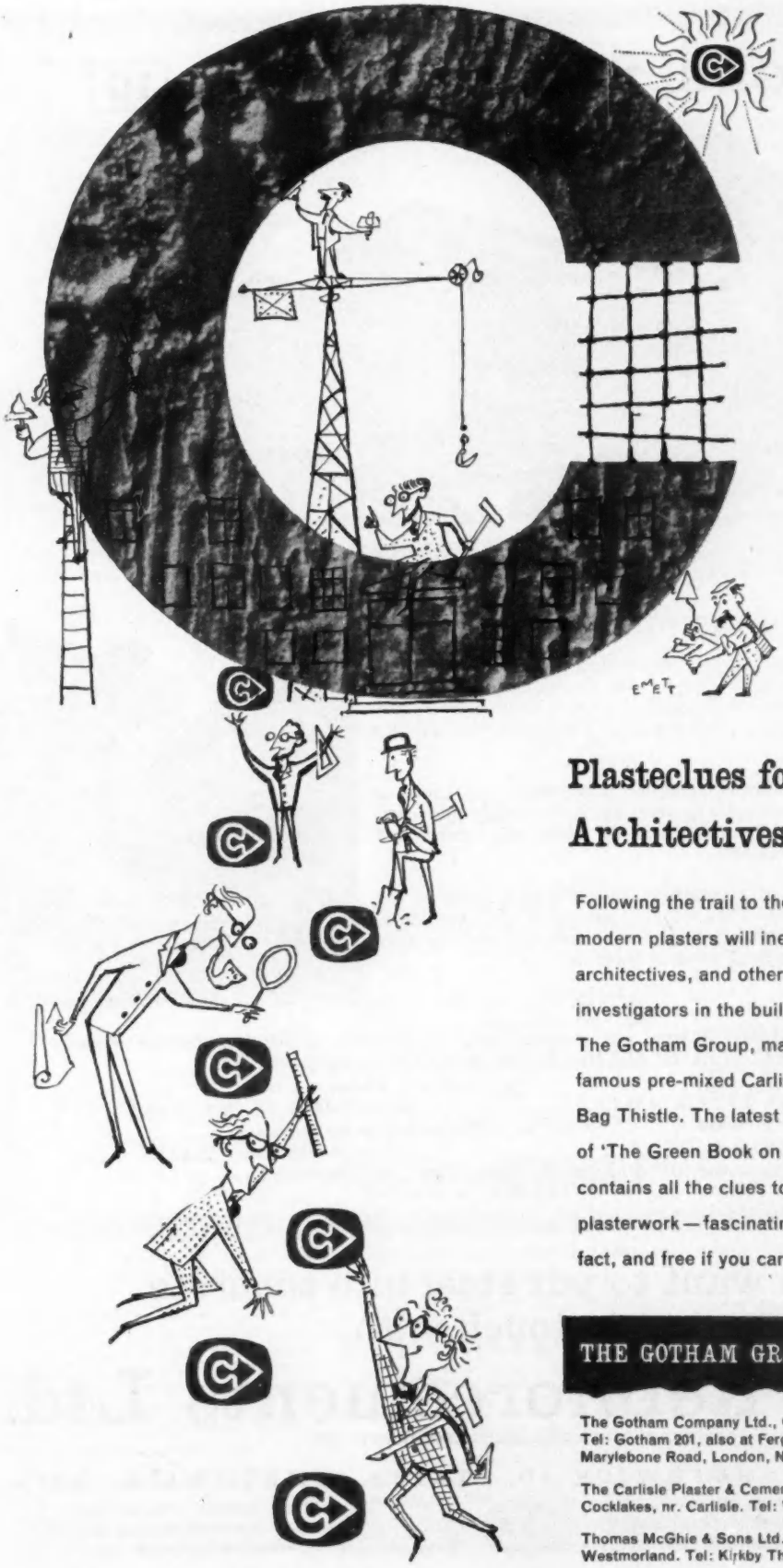
Personal Column

Messrs. Thomas Smith & Sons (Rodley) Ltd. have appointed MR. P. GOODALL export sales manager of the company and MR. L. R. S. FRENCH, home sales manager.

MR. ERNEST COVERDALE, chairman and joint managing director of Permoglaze Holdings Ltd., and MR. PETER COVERDALE, joint managing director, have joined the board of directors of Blundell, Spence & Co. Ltd. At the same time, MR. E. B. CALVERT, chairman and managing director of Blundell, Spence & Co Ltd., and MR. A. F. BACON, executive director, have been appointed directors of Permoglaze Holdings Ltd. and Permoglaze Ltd. These appointments follow the announcement that an agreement had been reached for a merger to take place between the two companies.

MR. IAN GILMOUR has taken up his duties as Ferodo Stairtread representative for Scotland.

MR. PHILIP ABSALOM has been appointed assistant publicity manager of the British Materials Handling Division of the Yale & Towne Manufacturing Co. Hitherto responsible for public relations, he will now also be responsible for general advertising activities. MR. COLIN KNELLER joins the company as assistant publicity manager of the British Lock & Hardware Division, and will be responsible for public relations and advertising. MR. MAURICE NEWMAN joins Yale & Towne as print controller for both British divisions.



Plasteclues for Architectives

Following the trail to the best modern plasters will inevitably lead architectives, and other top investigators in the building world, to The Gotham Group, makers of famous pre-mixed Carlite and Green Bag Thistle. The latest edition of 'The Green Book on Plastering' contains all the clues to perfect plasterwork—fascinating reading, in fact, and free if you care to ask.

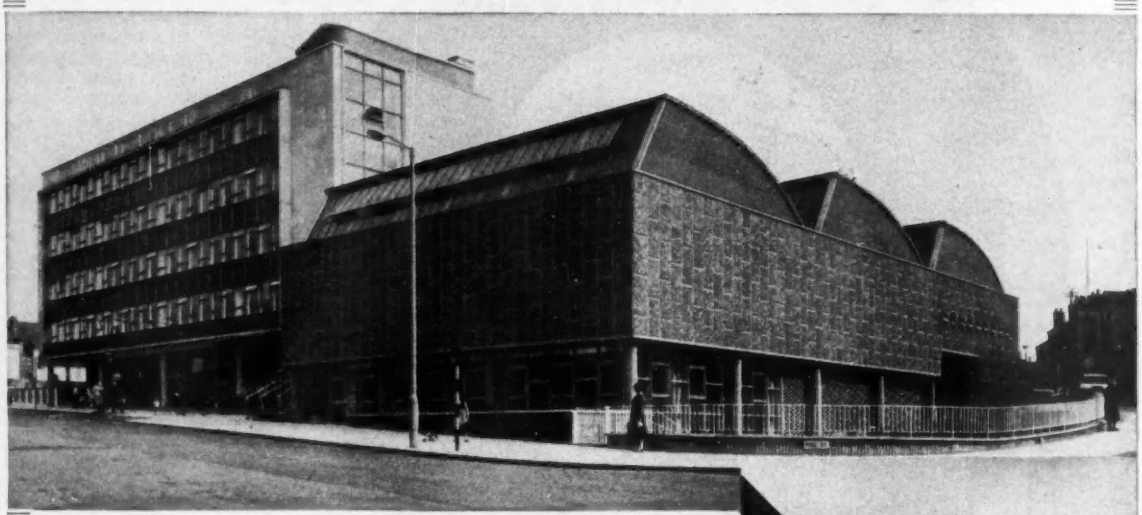
THE GOTHAM GROUP

The Gotham Company Ltd., Gotham, Nottingham. Tel: Gotham 201, also at Ferguson House, Marylebone Road, London, N.W.1. Tel: Hunter 4259.

The Carlisle Plaster & Cement Co., Cocklakes, nr. Carlisle. Tel: Wetheral 345.

Thomas McGhie & Sons Ltd., Kirkby Thore, Westmorland. Tel: Kirkby Thore 204.

DESIGNS IN CONCRETE 10

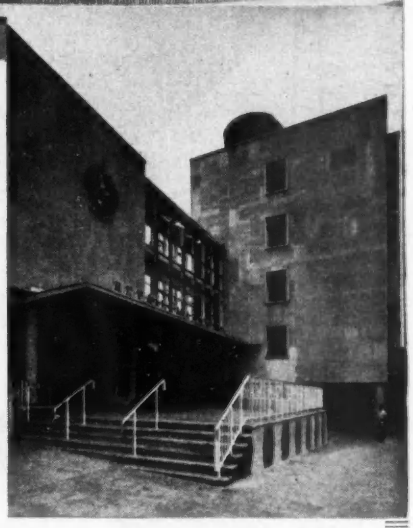


WOLVERHAMPTON MARKET

Wolverhampton's new market reflects the prosperity of Britain in its careful attention to design with the housewife in mind. Extensive use of reinforced concrete allows wide floor spaces (without supporting pillars) and connecting bridges between multi-storey office blocks.

There are spacious halls, imaginative restaurants and shops, a sunken garden and an underground park for nearly 100 cars. North light barrel vault roofs shield the clean and unrestricted interior from direct sunlight.

Extensive use of 'Tentor' reinforcement (Regd.), supplied by G.K.N. Reinforcements Ltd., meant a saving of 15% compared with conventional reinforcements—an initial and accumulative economy reproducible in all modern building.



The Wolverhampton Market Scheme was designed under the direction of the then Borough Engineer, Mr. W. M. Law, M.B.E., M.I.C.E., M.I.Mun.E., and the Architects responsible were:

Deputy Borough Architect: A. G. E. CHAPMAN, A.R.I.B.A., A.M.T.P.I.

Chief Assistant Architect: N. C. DOWELL, A.R.I.B.A.

Architect In Charge: J. A. RICHARDS, Dip. Arch., A.R.I.B.A.

Reinforced Concrete Designers: G.K.N. REINFORCEMENTS LTD.

Contractors: WILLIAM MOSS & SONS LTD. LOUGHBOROUGH.

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G.K.N. Reinforcements Ltd.

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BRISTOL: *(Bristol 21555)* LEEDS: *(Leeds 27311)* CARDIFF: *(Cardiff 45220)* LEICESTER: *(Leicester 25114*

Works: SMETHWICK, WIGAN & GLASGOW

News in Brief

Lt. Col. Galbraith

THE RETIREMENT on June 30 of Lt. Col. T. G. Galbraith, FIOB, of Galbraith Brothers, Ltd., building contractors, marks the end of 50 years' service with the family firm. Lt. Col. Galbraith had for more than 30 years been a member of the board of directors, latterly as managing director. His retirement is due to ill health.

Factory Equipment Exhibition

THE FACTORY EQUIPMENT EXHIBITION, the first major trade show to be exhibited outside London, will be held at Manchester from September 21 to October 1. The exhibition is sponsored by the Manchester Chamber of Commerce, 'The Financial Times' and 'Industrial Equipment News,' and has the support of institutions and societies directly concerned with factory equipment and machinery.

Safety Training Course

A ONE-WEEK residential safety training course for safety officers concerned with accident prevention in the building and civil engineering industries, will be held at the Civil Defence Staff College at Sunningdale in Berkshire from November 13 to 18. The course is being organised by the Royal Society for the Prevention of Accidents from whom full details may be obtained. Inquiries should be made to the Training Officer, at Industrial Safety Division, Artillery Mansions, 75 Victoria-street, London, SW1.

International Forum at the RIBA

AN AMERICAN ARCHITECT, Professor George Edson Danforth, who has been closely associated with stainless steel curtain-wall technique in the USA, is to be the main speaker at an international forum at the RIBA on September 5 and 6. The meeting is sponsored by the United Kingdom Stainless Steel Manufacturers' Association. The programme for the forum will include an exhibition of sections, models, films and photographs showing examples of contemporary American architecture.

City and Guilds Courses

SEVERAL CHANGES and additions have been made by the City and Guilds of London Institute in the regulations and syllabuses for study during the forthcoming 1960-61 session. These include a new course 'A' in electrical installation craft practice, designed to cover three years of part-time day study; the introduction of three new schemes to cater for the needs of the sand, gravel and quarrying industries; and an additional optional section 'C' on the abstracting and billing of quantities to Part II of the builders' quantities examination to meet the needs of assistants in professional offices and members of the quantity surveying departments of the public services who are employed as workers-up.

Objects of Historical Interest

A LIST of monuments and objects of historical and antiquarian interest which are sited in parks and open spaces has been prepared by the London County Council's Parks Committee.

Promotion Assessment Committee

A PROGRESS ASSESSMENT committee, under the chairmanship of Mr. A. C. Wates, a director of Wates, Ltd., of Norbury, has been set up to ensure that no employee is overlooked for promotion. Progress reports by department heads will be submitted and each employee's claim to promotion will be considered, his career development watched, and all aspects studied in order that individuals may have a chance to share in the company's growth. The committee will meet twice a year.

Bricklaying Competition at Torquay

A COMPETITION for apprentice bricklayers sponsored by the South Devon Area Joint Apprenticeship Committee was held at the Old Woods Brick Yard, Torquay (by courtesy of the Western Counties Brick Co., Ltd.), on June 17. The competition attracted an entry of 26 apprentices whose task was to construct a wall designed by Mr. T. Hughes, chief brickwork instructor at the South Devon Technical College. The adjudicators were Mr. Edwin Clarke, FIOB, past president of the Torbay and District Association of Building Trades Employers, and Mr. F. W. Elliott, district organiser of the Amalgamated Union of Building Trades Workers. First place was awarded to G. H. D. Pearce (Chelston Building Co., Ltd.); second to D. Hughes (Mr. Edwin Clarke); and third to J. F. Stone (Staverton Contractors, Ltd.).

ICE Conditions of Contract

A RECENT survey by the Federation of Civil Engineering Contractors shows that of the 1,757 local authorities in England, Scotland and Wales, 1,311 now use the ICE Conditions of Contract for letting their civil engineering work. The Federation believe that the adoption of the ICE Conditions by local authorities is now virtually complete since those who are not using them probably carry out little, if any, civil engineering work. The Institution of Civil Engineers and the Association of Consulting Engineers are jointly concerned with the Federation in sponsoring these conditions.

Work Assessment

'JOB EVALUATION' by Mr. J. Walker Morris, AMIProd.E, recently published by the Institute of Industrial Supervisors, is intended for supervisory staff and explains methods of assessing jobs and suitable rewards by an incentive system appropriate to the particular work involved. Among other things it explains clearly and with the aid of diagrams, both the factor comparison system and the weighted points system. Copies of the booklet may be obtained from the Institute at 24 Albert-street, Birmingham 4, price 3s.

CEA Conference, 1960

THE CEA conference this year will be held at the Hotel Majestic, Harrogate, on November 8-9. The theme will be 'Getting the best out of coal,' embracing boiler plant and industrial furnaces and kilns. Details from the Combustion Engineering Association, 70 Jermyn-street, SW1.

Foundry Technician Training

THE REPORT of the recent study conference held under the auspices of the Training Committee of the Council of Ironfoundry Associations, defines foundry technicians and recommends that they should be recruited and trained as such from the outset. The report states that various other sources of recruitment are proving both insufficient and unsatisfactory. Its recommendations for selection, training and education which the committee is now taking steps to implement, are summarised. Copies of the report may be obtained from the Joint Iron Council, 14 Pall Mall, London, SW1.

Building Board Directory

OVER A THOUSAND different boards, hardboards, insulation boards, chipboards, acoustic tiles, plastic sheets, plywoods, plaster boards, etc., are listed in the 1960 edition of the 'Building Board Directory,' which has now been published. Details of branded plywoods on the market are given for the first time, and new sections have been added for acoustic tiles, plastic-faced boards and expanded polystyrene sheets. Copies are obtainable from the Middlesex Publishing Co. Ltd., 194-200 Bishopsgate, London, EC2. Price 5s., post free.

Handicrafts and Trade Fair

MUNICH will be the venue for the 1961 International Handicrafts and Trade Fair. The fair will be held in the exhibition grounds at the Theresienhohe from May 31 to June 11.

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Lancs. Representative: W. REDMAN, 11, Deneway, High Lane Stoc'port, Cheshire. Tel.: Disley 2034

OVERSEAS BUILDING

From Our Own Correspondents

AUSTRALIA (WESTERN).—A papermill, to cost approximately £A3¾m., is to be built near Perth by Australian Manufacturers Ltd. It will be erected on 400 acres of land near the Kwinana oil refinery.

BRAZIL.—The Federal Savings Bank is to start immediately on the erection of 5,000 houses in Brasilia for sale to the general public.

BRITISH WEST INDIES.—Draft orders have been isued by the Governor of Trinidad and Tobago, declaring the cinema industry and the manufacture of concrete modular sections for prefabricated houses to be pioneer industries, under the Aid to Pioneer Industries Ordinance, the provisions of which include 5 years' exemption from duty on imports on equipment and machinery, and income tax.

CANADA (ALBERTA).—A $8.5m. addition is to be constructed to the Camsell Hospital, Edmonton. . . . Gibralta Leaseholds Ltd. are to construct a $1m. office building in Edmonton. . . . An internal ring road is to be constructed around Calgary at an approximate cost of $5m. The project includes a $1.4m. causeway across the Glenmore reservoir. . . . Jefferson Lake Petrochemicals has applied for authorisation to construct a gas gathering system and gas processing plant. The cost of the project will be approximately $12m.

CANADA (BRITISH COLUMBIA).—Holdfast, Natural Resources Ltd. has under consideration the construction of a processing plant to exploit pozzalan deposits near Port Alberni. . . . The Provincial Government is considering the development of Garibaldi Park with a view to staging the winter Olympic Games of 1968 there. Possibilities include a 20-mile access highway at an estimated cost of $1m. . . . Another shopping centre, on 15 acres and to cost $2m., has been announced for Saanich. Safeway Stores are to take the major building. . . . The new College of Education, at the University of British Columbia, will cost $2.5m. to construct, and the medical science building $2.75.

GUATEMALA.—A Guatemalan company, acting as contractors to the Municipality of Guatemala City, urgently requires between 20,000 and 30,000 metres of cast-iron centrifugal water mains from 14 to 18 in. with mechanical joints, and about 5,000 ft. of water well casing, 14 in. and 16 in. Interested suppliers should write to Sres. Félix Montes y Cía., 8a Calle 3-27, Guatemala City, Guatemala.

JAMAICA.—Stone & Webster Engineering Ltd. has been awarded the contract for the design and construction of an extension to the Hunts Bay Station of Jamaica Public Service Company Ltd. This project comprises a 20,000 Kw turbo-generator with boiler and auxiliaries.

KENYA.—A new Roman Catholic cathedral is to be built in the centre of Nairobi to replace the existing Church of the Holy Family, built in 1904. The cathedral will have a 200 ft. high campanile and it is expected to cost £200,000. About £60,000 will be needed for the first stage of construction.

LIBYA.—The contract for the reconstruction of Benghazi harbour is reported by Barclays Bank DCO to have been awarded to a joint Greek venture of Archimedes Construction Co. and Odon and Odostromaton Construction Co. of Athens. Their tender price was £L4,687,000, and the period for the work to be completed is 38 months. Tenders are being invited for two further contracts for the building of an 160-room hotel and a hospital at Beida.

RHODESIA (SOUTHERN). — From Bulawayo, Barclays Bank DCO reports that building projects valued at £3m. will be started fairly soon. These include work on the new Chabalala township (approximately £1m), Rhodesia Railways township (some £900,000) and an African home ownership scheme at Mpopoma (approximately £½m.).

SOUTH AFRICA (ORANGE FREE STATE).—The provincial administration has approved buildings for administration costing more than £1,200,000 for Welkom. Included in the building plan are £82,000 for a high school and £95,000 for an English-medium school. A new hospital will cost more than £1m.

SOUTH AFRICA (TRANSVAAL).—Building plans worth £1,131,359 were passed during the year at Krugersdorp. Railway sheds costing £½m. are being erected to the west of the town and a £400,000 technical and trades school is to be built at Quellerie Park.

TASMANIA.—Plans are being considered to remodel Battery Point, one of the first suburbs of old Hobart Town. Prof. Denis Winston, of Sydney University, has put forward a plan to rebuild Battery Point as an inner suburb of multi-storeyed flats.

British Products for Canada

AT THE INVITATION of the Board of Trade the Council of Industrial Design is sending between 200 and 300 samples of Britain's best designed consumer goods for display on the British Government stand at the 82nd Canadian National Exhibition. The stand has been designed by Mr. Leslie Gooday, ARIBA, FSIA. Categories of products on display include furniture, glass, kitchen equipment, lighting, pottery, wood and metal ware. All categories have been chosen from the Design Index.

Overseas Contracts Open

INDIA.—The Burmah Oil Co. (Pipe Lines) Ltd. on behalf of Oil India Private Ltd. are to invite tenders from manufacturers only for the supply of valves, seamless butt welding fittings, pipeline casing seals, etc., required for the construction of a major pipeline project scheduled to commence in November. Interested manufacturers should apply to the company at Brittanic House, Finsbury-circus, London, EC2, by August 2.

IRAQ.—The Ministry of Industry invites tenders from qualified engineering companies with experience in pipeline construction for the supply and erection of a buried natural gas pipeline from Basrah Petroleum Company's plant at Pumaila and Basra Power Station at Najilieyah and a proposed fertilizer project at Abul Flus. Tender documents may be inspected at the Ministry of Industry Directorate of Legal Affairs and at the Embassies and Legations of the Republic of Iraq. Two sets may be obtained against a non-returnable payment of ID.25. Tenders must be accompanied by a cash deposit and submitted by August 31.

SCOTTISH BUILDER

New Schools for Old

SPEAKING at Fort William recently, the Under-Secretary of State, Scottish Office, MR. N. MACPHERSON, said that in the next five years it was intended to invest about £65m. in Scotland on the replacement or modernisation of old schools and the building of new ones.

Mr. MacPherson, who was formally opening the new £270,000 Lochaber High school, said that since the war £80m. had been spent on school buildings in Scotland. Some 400,000 school places had been provided and, he added, 'we are not stopping there.'

The school, formally accepted on behalf of Inverness-shire Education Committee by the chairman, is built on a 19-acre site about two miles from the old building. There is no primary department.

New Buildings

FALKIRK.—Plans for a new shopping centre in the town were considered recently by Falkirk Dean of Guild Court. They were submitted by the Falkirk Development Company, Ltd., 140 West George-st., Glasgow, who sought permission to demolish the existing buildings and erect new buildings on the vacant site at the corner of Callendar Riggs and High-street. They were granted a continuation for two weeks after the burgh engineer had told the Court that certain items of the plans were still under discussion.

INVERNESS.—Northern Regional Hospital Bd. propose a new central general hospital at Raigmore. The first phase of the building—an out-patient department—would begin in the 1963-64 financial year.

SCOTTISH BUILDING TRADE WAGES

FOLLOWING are rates of wages authorised by the Scottish National Joint Council as from April 18, 1960. They apply to the whole of Scotland, including the islands of Orkney, Shetland, etc.

Grade A: Craftsmen, 4s. 11½d.; Labourers, 4s. 4d.

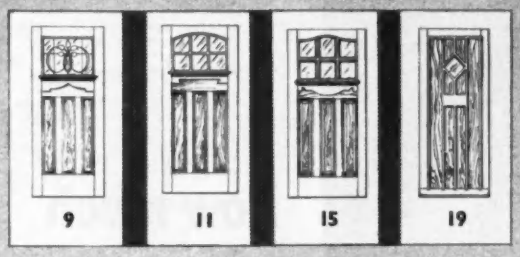
For apprentices, the rates are :

Year	Percentage of Craftsman's rate	For week of 44 hours s. d.
1st	25	54 6½
2nd	33⅓	72 9
3rd	50	109 1
4th	66⅔	145 6
5th	75	163 7½

For female labour, the rates are :

	s. d.
Operatives on craft operations (at end of probationary period)	4 4
Operatives on labouring operations (at end of probationary period) ...	3 10

DOORS



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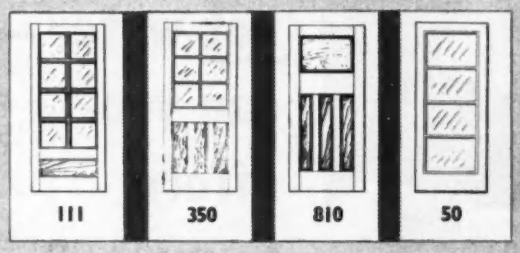
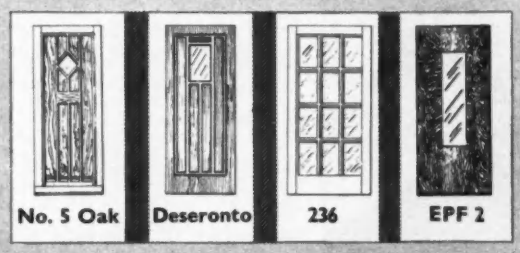


SCORES



-and all from stock!

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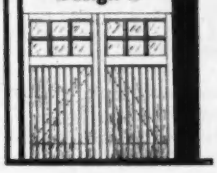
Design B



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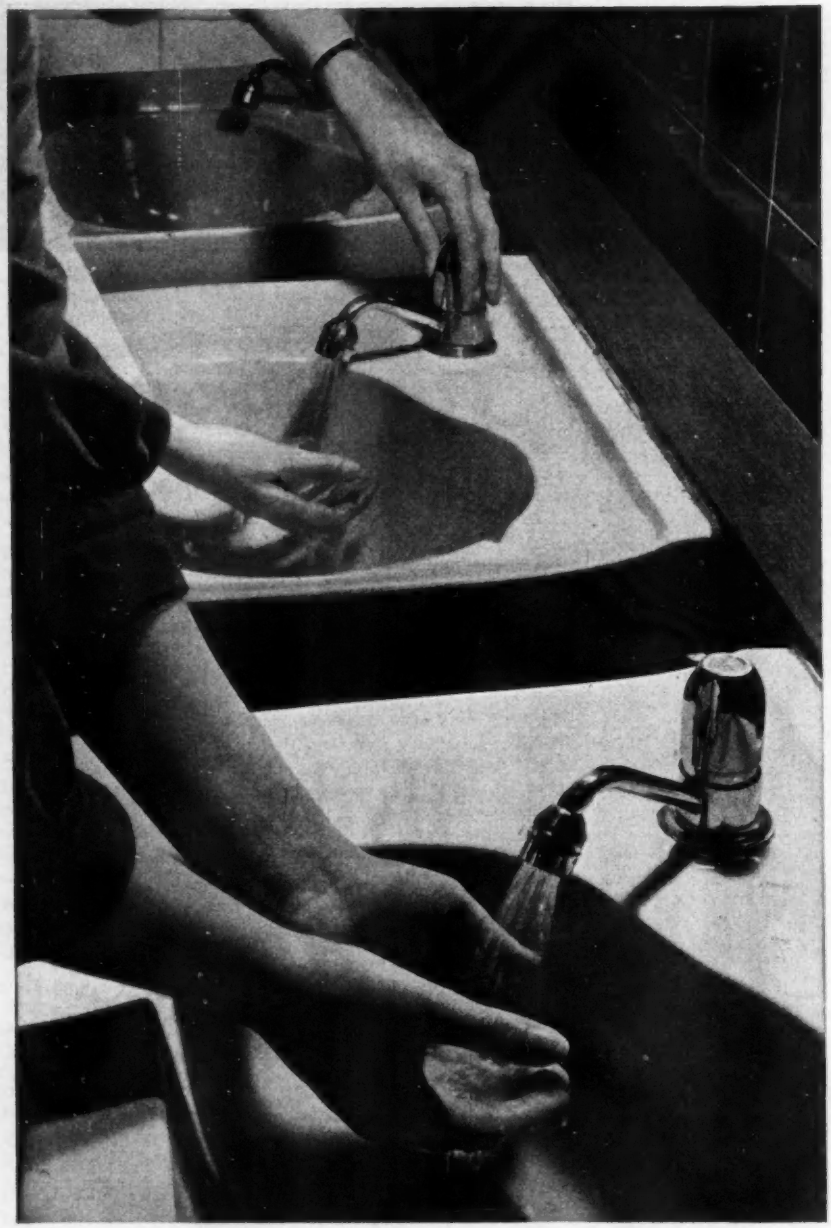

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We waste too much water, and mainly hot water. We fiddle with the taps until the basin is a hot reservoir.

Contrast this with two recent cases. In the first, a branch of an institution was using in an ordinary week five hundred gallons hot and cold. This is now fifty-four gallons a week! The second is a London office block which for years used in a month six thousand gallons of hot and one thousand, six hundred and fifteen of cold. They have reduced this to one thousand, four hundred and fifty hot and eight hundred and fifty cold—a sixty-nine per cent total saving of water, seventy-five per cent of which (repeat: seventy-five per cent) was hot!

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THE BUILDER CONSTRUCTION NEWS

Full details of Public Appointments open will be found in the Advertisement pages of this and previous issues.

CONTRACTS OPEN

For some contracts still open but not included in this list, see previous issues. Those preceded by the symbol (A) are advertised in this number. The latest date for the receipt of tenders or applications appears above each paragraph. The symbol (R) preceding each entry indicates that applications must be received by this date.

BUILDING

JULY 25

(AR) HENDON BC.—Erection of flatted factory at North Circular-rd. Boro' E&S. Tenders by Sept. 12.

JULY 26

(AR) BIRMINGHAM CITY C.—Firm price tenders for:—(a) 14 dwellings at Woodcock-la., Northfield, and (b) a tenants' meeting room at Holloway, Ley Hill estate, Northfield. City A. Dep. £2 2s. (each contract). Tenders by August 26.

JULY 27

(AR) LEEDS REGIONAL HOSPITAL BD.—Fixed price tenders for:—(a) Modernisation of recreation hall at Clifton Hospital, York. (b) Improvements to sanitary amenities at Clifton Hospital, York. A to Bd. Dep. £2 2s. (each contract).

(AR) OXFORDSHIRE CC.—Alterations and additions to South Oxfordshire Technical College, Gravel Hill. Julian Leathart & Son, architects, Mount Lodge, Sunningdale, Berks.

JULY 28

(AR) TOTTENHAM BC.—Erection of 18 flats in four-storey blocks at Park-la. Boro' E. Dep. £2 2s.

(AR) WINCHESTER CITY C.—Erection of one three-storey block of six flats at Water-la. A. S. Wilson & Ptnrs., chartered quantity surveyors, 8 Storey's Gate, SW1. Dep. £2 2s.

JULY 29

(AR) EASTBOURNE CBC.—Extensions to the Princes Park Café. Boro' S. Dep. £2 2s. Tenders by August 24.

(AR) SOUTHAMPTON CBC.—Erection of 24 flats and 10 maisonettes at Weston Farm estate. Boro' E.

AUGUST 1

(AR) TOTTENHAM BC.—Erection of 76 dwellings at Warwick-gdns./Fairfax/Effingham roads. Boro' E. Dep. £2 2s.

AUGUST 2

(AR) HORNCHURCH UDC.—Rebuilding of two (BISF) houses at Ravensbourne-cres., Harold Wood. C.

AUGUST 3

(AR) BRISTOL CITY C.—Fixed price tenders for two shops, two flats and two garages at Teyfant-rd., Hartcliffe. City A.

(AR) DURHAM CITY C.—(a) Completion of kitchen, small hall and assembly hall/gymnasium at Pelton mod. sch. (b) Alterations at Ivy House hostel, Sedgefield. County A.

TRALEE (Eire).—Proposed factory at Tralee for Messrs. Kingdom Tubes Ltd. A. G. Jennings, constg. engnr., O'Connell-st., Sligo. Dep. £15 15s.

AUGUST 5

(AR) EAST SUFFOLK CC.—Firm price tenders for a block of offices at Lowestoft. County A. Tenders by Sept. 6.

(AR) EAST SUSSEX CC.—(a) Provision of a four-storey classroom block, cloakroom accommodation, gymnasium and playground extension etc., at Newhaven county sec. sch. (b) Provision of four additional classrooms at Uckfield county sec. sch. (c) Provision of additional accommodation and other improvements at Maresfield Ponners CoE (controlled) sch. County A. (separate applications).

AUGUST 8

(A) CUCKFIELD UDC. — Improvement works to 31 houses at Bentswood-rd., Little Bentswood, and New England-rd., Haywards Heath. Housing Mgr.

(AR) HASTINGS CORPN.—Fixed price tenders for 30 dwellings and 14 garages, etc., at Gate Farm estate, Hollington. Boro' E. Dep. £3 3s. Tenders by Sept. 6.

(A) HEMEL HEMPSTEAD BC.—Supply and erection of 37 precast concrete garages off Paston-rd. Boro' E.

AUGUST 11

(A) OLDHAM CBC.—Structural alterations at Higginshaw sec. mod. sch. to provide lavatory and staff accommodation. Cameron & Middleton, chartered quantity surveyors, 21 Queen-st., Oldham. Dep. £2 2s.

AUGUST 12

(A) BOOTLE BC.—Extension to civil defence headquarters, Knowsley-rd. Boro' S. Dep. £2 2s.

FERMOY (Eire).—Proposed extensions and alterations to St. Colman's College, Fermoy, Co. Cork. Patrick J. Sheahan, architect, 47 O'Connell-st., Limerick. Dep. £25.

(AR) SOUTHWICK UDC.—Fixed price tenders for 32 shops, 32 flats and maisonettes over and 32 garages in four-storey blocks at town centre. C.

AUGUST 13

(A) EAST GRINSTEAD UDC.—Fixed price tenders for the modernisation of Nos. 80 and 82 Queen's-rd. S. Dep. £2 2s.

AUGUST 15

(A) LINCOLN CITY C.—Fixed price tenders for a transport rest room, office and two flats. City A. Dep. £2 2s.

AUGUST 16

(A) BERKSHIRE CC.—Erection of ambulance station at Eagles-close, Ormond-rd., Wantage. County A. Dep. £2 2s.

AUGUST 20

(A) EAST GRINSTEAD UDC.—Fixed price tenders for the supply and erection of timber or prefabricated concrete buildings in connection with sports pavilion. S. Dep. £2 2s.

AUGUST 22

(A) SUNDERLAND CBC.—Erection of public abattoir, meat market and cold store and administration offices. Boro' A. Dep. £2 2s.

AUGUST 23

(A) ILFORD BC.—Firm price tenders for two blocks of 12 one-bedroom flats and four blocks of 12 two-bedroom flats at The Glade. Boro' E. Dep. £3 3s.

AUGUST 29

(A) NEW SARUM CITY C.—Fixed price tenders for six houses, 58 flats and five garages, etc., for Essex-sq. redevelopment, Salisbury. City E.

AUGUST 30

(A) BILLINGHAM UDC.—Fixed price tenders for the construction of single-storey building for town centre development. Elder & Lester, Midland Bank-chbrs., Town-sq., Billingham. Dep. £5 5s.

AUGUST 31

DUBLIN CORPN.—Erection of four five-storey blocks of flat dwellings, containing 18 flats and 56 maisonettes. City Treasurer, Exchange-bldgs., Lord Edward-st., Dublin. Dep. £15 15s.

WATERFORD CC.—Erection of 33 rural cottages and incidental works in various locations throughout the county. Tenders must be for full contract or for labour only. County Secretary (Housing Section), Davitt's Quay, Dungarvan, Co. Waterford.

SEPTEMBER 6

(A) BRADFORD CITY C.—Erection of 64 dwellings with necessary site works at Bradford-rd., Clayton. City E&S. Dep. £2 2s.

NO DATE

(AR) SALFORD RC DIOCESAN TRUSTEES.—Erection of St. Cuthbert's RC four form-entry sec. technical sch., Old Kilnla., Bolton, Lancs. Rev. Father G. Larkin, PP, 61 Barton Arcade, Barton-sq., Manchester 2.

SERVICES, PAINTING, MATERIALS, ETC.

AUGUST 4

(A) LETCHWORTH UDC.—Painting and decorations of various buildings in urban district. E&S. Dep. £2 2s.

AUGUST 8

(A) ROMFORD BC.—Electrical installation to 24 flats and 16 houses at Waterloo-rd. redevelopment area. Boro' E&S. Dep. £2 2s.

AUGUST 29

(A) CATFORD RDC.—Materials. E&S.

MUNICIPAL AND CIVIL ENGINEERING WORKS, ETC.

AUGUST 5

GRANGE UDC & NORTH LONSDALE RDC.—Fixed price tenders for the renewal of approx. six miles of existing steel mains, with 9, 6 and 4in. asbestos-cement pipes, including the reconnection of existing services and installation of valves, hydrants and meters. Ward, Ashcroft & Parkman, Cl.'s constg. engrs., 38 The Temple, Dale-st., Liverpool 2. Dep. £2 2s.

AUGUST 6

HEYWOOD BC.—Fixed price tenders for the supplying and laying of approx. 10,000 sq. yd. of asphalt surfacing. Boro' S. Dep. £2 2s.

AUGUST 8

DOWNPATRICK RDC.—Laying of 6.5 miles of 4in. dia., and 6.3 miles of 3in. dia. spun-iron pipes in the Downpatrick Rural District. RDC's Offices, Quoile-rd., Downpatrick, Co. Down. Dep. £3 3s.

PRESTON CBC.—Supplying and laying of approx. 8,200 sq. yd. of hot-rolled asphalt, etc., at Blackpool-rd. Boro' E&S. Dep. £2 2s.

AUGUST 9

NORTH EAST LINCOLNSHIRE WATER BD.—Laying and jointing of approx. four miles of 24in. dia. asbestos-cement pipes and ancillary work, from Tetney to Weelsby, nr. Grimsby, Lincs. E&M. Dep. £2 2s.

AUGUST 15

PORT TALBOT BC. — Provision of 5,000yd. of 8 and 10in. cast-iron pipe, etc., at Cwmavon/Baglan/Standfields Water Main. Boro' E. Dep. £2 2s.

AUGUST 27

WYCOMBE RDC.—Laying of approx. 31,000 lin. yd. of 4 to 12in. dia. concrete and stoneware sewers; 1,000 lin. yd. of 4in. spun-iron pumping mains; construction of 373 concrete manholes, one pumping station building and one ejector station building—with road reinstatement—and other ancillary works for Stokenchurch Sewerage Scheme. E&S.

AUGUST 31

LYDNEY RDC.—Fixed price tenders for the laying of 5,541yd. of 4in. and 7,505yd. of 3in. spun-iron water main, etc., for the Hewelsfield, St. Briavels and Mork Water Main Extension. E&S. Dep. £5 5s.

SEPTEMBER 1

CAMBRIDGE CITY C.—Construction of roads and sewers at Arbury-rd. housing

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estate north site; comprising 14,900 sq. yd. of hot-rolled gravel asphalt carriageway; 3,770 lin. yd. of kerb; 690 lin. yd. of soil, and a SW sewer—15-19in. dia., etc. City E&S. Dep £5 5s.

GENERAL BUILDING WORK (LONDON)

BATTERSEA.—Civic Centre Development.—BC propose the erection of an office block on frontage of Lavender Hill site No. 1, between Mysore-rd. and Elspeth-rd. Howes & Jackman, architects. Est. cost is £115,000.

BETHNAL GREEN.—School Adaptations, etc.—The LCC have approved plans submitted by architects Edward Armstrong & Frederick MacManus for the adaptation and extension of Daneford county sec. sch. Estimated cost of work is £371,520.

CAMBERWELL.—Voluntary-Aided School.—The LCC Schools Planning Sub-Com. have reported that the Governors of Mary Datchelor girls' sch., a voluntary-aided sec. sch.—have agreed to surrender their lease of the school's playing field (about 7½ acres) at Green Dale, Camberwell, so as to provide a site for a new county sec. sch. for boys and girls. The Council will buy the freehold of this site at an estimated cost of £27,500 and will provide the Mary Datchelor sch. with a new playing field of about 12 acres at Hunts Slip-rd., Camberwell.

ISLINGTON, CAMBERWELL & WANDSWORTH.—Nursery Schools.—New nursery schools are to be built at Carlsbad-st. housing site, Islington, the Alton estate, Wandsworth, and the Kingswood estate, Camberwell. The school on the Carlsbad-st. site will accommodate 80 children attending part-time (40 in the morning and 40 in the afternoon) and will cost about £14,300. The other two schools will each accommodate 40 children attending full-time and 60 attending part-time (30 in the morning and 30 in the afternoon). The one on the Alton estate will cost £21,100 and the one on the Kingswood estate, £21,345.

KENSINGTON.—School Rebuilding.—A project for the rebuilding of Cardinal Vaughan sch., a RC voluntary-aided sec. sch. for boys, on a site at Addison-rd. and Holland Villas-rd., is included in the LCC's 1960/61 School building programme. The Governors' architects have submitted proposals for a three-storey building to house 390 pupils on the part of the site now available. The accommodation will comprise assembly and dining hall, kitchen, gymnasium and changing-rooms, woodwork and metalwork shop, science laboratories, classrooms and division rooms, specialist rooms for music, art and crafts, history and geography, library, administrative accommodation and a school-keeper's house. The total estimated cost, including architectural and incidental expenses, is £155,319.

LAMBETH.—New School.—The Schools Planning Sub-Com., LCC, have approved a scheme prepared by the Architects Co-Partnership for building a new sec. sch. for 1,650 boys at Lollard-st., Lambeth. Workshops for woodwork, metalwork and engineering subjects will be provided in the existing Borough-Beaufoy sch., which will be adapted for the purpose. The capital cost of the new buildings and the adaptations will be £674,105.

LEWISHAM.—Modernisation of Museum.—The LCC General Purposes Sub-Com. propose to modernise the Horniman Museum, Lewisham, at a cost of £34,000. Modernisation is long overdue and the work will be carried out in stages. The first improvements will be made in the South hall where all the showcases on the ground floor will be replaced by large glass-enclosed, fluorescently-lit cases of uniform height but varying depth. The showcases on the balcony rail of the gallery will also be replaced and the general appearance improved.

ST. MARYLEBONE.—London Hotel.—An LCC proposal for a new 296-ft.-high, 28-storey hotel at Portman-sq., is now under consideration. The architect of the scheme is Mr. Michael Rosenauer, FRIBA, who designed the Westbury Hotel in New Bond-st. and the new 18-storey Carlton Tower Hotel in Cadogan-pl.

Contracts Placed

We are glad to receive from architects and quantity surveyors for publication details of contracts placed to the value of £20,000 or over. Such information should reach the Editor as soon as possible after the contract is signed. Names of the architect and other consultants associated should be given.

WANDSWORTH.—Special Day School.—The LCC's Special Ed. Sub-Com. have approved plans for a new day special sch. for 100 physically handicapped boys and girls at St. Maragaret's-cres., Wandsworth. The estimated cost is £47,440. The school, which will be on a site adjoining the new Chartfield day special sch. for delicate children, will be a single-storey building with a wide entrance foyer to give attendants ample room for the reception of children and a straight central corridor, with classrooms grouped on the south side, leading to an assembly and dining hall.

(PROVINCIAL)

ASHTON-UNDER-LYNE.—School Com. of Astley grammar sch. propose erection of swimming pool.

BELFAST.—City C propose to develop 110 acres of land at Glengormley as playing fields. The scheme includes about 37 pitches for association football, rugby, hockey, etc. Est. £140,000.

CUMBERLAND.—Finance and General Purposes Com. of Cumberland EC has approved a £145,000 extension scheme for the Cumberland and Westmorland Farm School, at Newton Rigg, nr. Penrith.

DRONFIELD.—Outline planning approval has been given by UDC to an application by Undrell & Sons Ltd., of Dronfield, to build 74 houses off Gosforth-la. . . . UDC has approved the erection of 82 semi-detached houses and seven detached houses on land at Highfields-rd.

DURHAM.—RDC has approved plans by County Architect (G. R. Clayton) for workshops and stores at fire brigade headquarters, Framwellgate Moor. . . . RDC has received the consent of MH&LG to borrow £32,109 for 20 dwellings at Belmont housing site.

EASINGTON.—J. Nimmo & Son Ltd., brewers, Castle Eden, are to extend their office block and mineral water factory. The firm has its own architects.

FELLING (Co. Durham).—MH&LG has approved UDC's scheme for 105 flats at Wellington-st. redevelopment area at a cost of £216,241. . . . It is proposed to convert the ground floor of the Grand Cinema, Pelaw, into a dance hall—mainly involving internal alterations. Architect is C. Solomon.

MANCHESTER. — HM Prison Commissioners propose erection of 20/30 houses for prison officers at Strangeways. . . . Tariff Street Properties Ltd. propose erection of 7-storey block showrooms/offices at Port-st. . . . Following for TC:—Maternity/child welfare centre and hostel for mentally disordered patients at Broughan-st., Gorton; extensions to occupational centre at Victoria-ave. east; family group homes at Blackley/Cheadle/Marple; block of 12 maisonettes at Holland-st., Ancoats; 56 houses/16 cottage flats/24 maisonettes/8 two-storey aged persons' dwellings at Hatchett-rd., Woodhouse Park; 22 dwellings and 2 blocks four-storey maisonettes at Thornton-st., Collyhurst; housing development at Crossacres Farm Wythenshawe; 503 dwellings, to include 12-storey block 46 flats, at overspill site, Sale, Ches. . . . Following for Regional Hospital Bd.:—New animal house at Royal Infirmary, Preston; new out-patient dept. at Royal Infirmary, Rochdale; conversion of pathology laboratory to out-patients' dept. at Royal Infirmary, Preston; improvements to annexe kitchen at Prestwich Hospital; conversion of MoW premises into nurses' accommodation at Burton-rd., Manchester.

MIDDLESBROUGH. — Corpn. Welfare Com. are to build an aged persons' hostel to accommodate 42 people. . . . TC is being recommended to spend £20,000 on improvements to Ormesby-rd. Boro' E is J. A. Kenyon.

MORECAMBE.—A. Robinson & Son Ltd. propose erection of 23 bungalows and garages at Lonsdale-ave. . . . Mr. J. R. Smallwood proposes erection of 11 pairs of bungalows at Kingsway. . . . J. Parkinson & Sons Ltd. propose erection of 43 bungalows at Fulwood-dr.

SHEFFIELD.—Chas. H. Pugh Ltd. propose erection of new service depot at Eckington.

SHILDON.—UDC is seeking planning permission to schedule a site of 12.3 acres at Dale-rd., Shildon, for proposed factory purposes.

SHREWSBURY.—Salop EC propose major extensions at Meole Brace sch. Est. £92,000. . . . City & Town Buildings Ltd., Bournemouth, propose redeveloping general market site with multi-storey blocks shops/offices and billiard hall, etc.

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(PA) Denotes *provisionally accepted*.
(RA) Denotes *recommended for acceptance*.
(AM) Denotes *accepted subject to modification*.
(GD) Denotes *accepted subject to approval by appropriate Government Department*.

BARNSLEY.—Three blocks of houses and shops at Yews Farm estate for BC. (A) Gibson Bros., Upton Pontefract, £35,127.

BEDFORD.—Erection of 14 houses, six bungalows and 24 three-storey flats at Eastcotts-ave. for BC. (GD) W. J. Bushby Ltd., £94,609.

BOLTON.—Erection of Laburnum Lodge hostel, Breighmet, for BC. (A) Direct labour, £64,350.

CARLISLE.—Mechanical engineering services at Garlands Mental Hospital for Newcastle-on-Tyne Regional Hospital Bd. (A) Selborne Engineering Co. Ltd., Selborne-Gdns., Newcastle-on-Tyne, £61,222.

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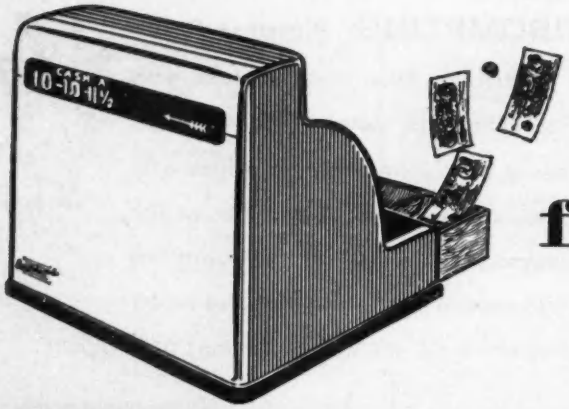

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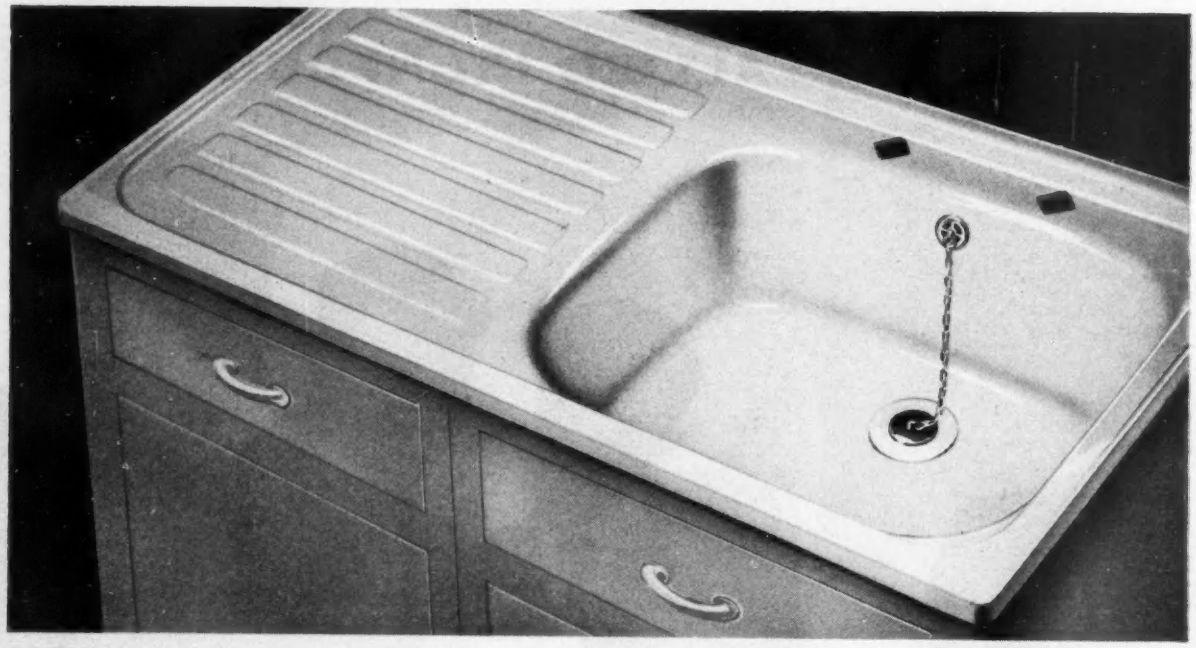

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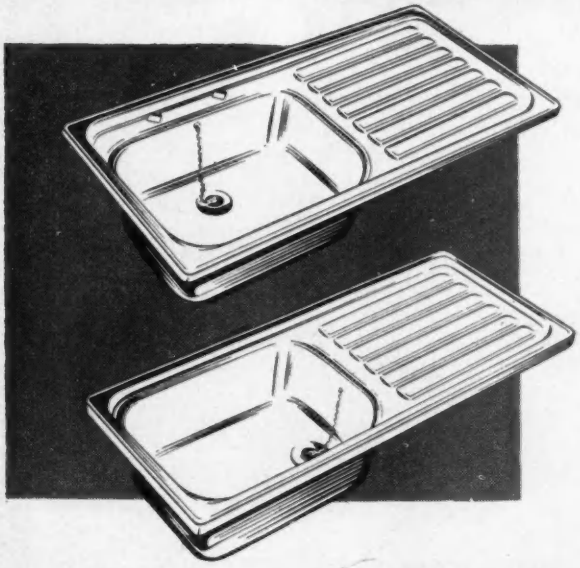

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CORNWALL.—Fixed price tenders for erection of a four-class CP sch. at Perranporth for CC. County A is F. Kenneth Hicklin. (A) Rogers & Christian Ltd., 80A Tower-rd., Newquay, £29,200.

DARLINGTON.—Erection of 50 houses at Firth Moor estate for TC. (A) Direct labour, £74,653.

DERBY.—Erection of new premises at Irongate for the Norwich Union Insurance Societies. Cartwright & Woollatt, architects. L. C. Wakeman & Ptnrs., quantity surveyors. (A) Ford & Weston Ltd., £43,943.

GOSPORT.—Construction of North Relief roadworks for BC. (A) Warings (Contractors) Ltd., £64,731.

HARROGATE.—New technical high sch. for West Riding EC. (A) Wm. Airey & Son (Leeds) Ltd., Eldon-hse., Leeds, £209,000.

HORNCHURCH.—Erection of 50 houses at Front-la., Cranham, for UDC. (GD) Seivad Ltd., 12/16 Southend-rd., South Woodford, London, E18, £92,999.

KESWICK.—Erection of 20 flatlets for UDC. (A) I. & R. Hodgson, Stanger-st., Keswick.

LAMBETH.—Works for MBC:—Erection of 16 dwellings at Charters-cl. (GD) Direct labour, £36,892; erection of four flats and three garages at Paulet-rd., and six flats and two garages at Templar-st. (GD) Thomas & Edge Ltd., £27,750.

LANCASTER.—Redevelopment of Mart Hall area (Phase 1) for TC. (A) Nicholson & Wright Ltd., £48,372.

LIVERPOOL.—New licensed premises, 'Crows Nest,' at Mill-st. for Bents Brewery Co. Ltd. (A) Horace Lucas & Son Ltd., Tithe Barn-st., Liverpool.

LIVERPOOL.—Second instalment of the new College of Technology for EC. City Architect is Dr. R. Bradbury. (PA) Tysons (Contractors) Ltd., £1,112,469.

LONDON CC.—Construction of 87 flats, 37 tenants' stores, seven garages, parking space for nine cars and a play space, at Spring Walk areas, Stepney.

Wilson Lovatt & Sons Ltd. ...	£284,451
Tersons Ltd.	245,793
Rowley Bros. Ltd.	242,938
J. Jarvis & Sons Ltd.	241,989
Richard Costain Ltd.	241,580
M. J. Gleeson (Contractors) Ltd. ...	240,581
Griggs & Son Ltd.	238,500
Token Construction Co. Ltd. ...	236,617
Wates Ltd.	235,850
Leslie & Co. Ltd.	233,390
Bernard Sunley & Sons Ltd. ...	232,791
(A) Rush & Tompkins Ltd. ...	232,553

Architect's comparable estimate is £225,319.

LONDON CC.—Erection of sports pavilion and groundsman's bungalow at Belmont, Sutton, Surrey.

M. J. Gleeson (Contractors) Ltd. ...	£33,786
Truett & Steel Ltd.	32,860
Croudace Ltd.	31,758
Grace & Marsh Ltd.	31,243
R. H. Lynn & Co. Ltd.	31,150
Siggs & Chapman Ltd.	30,788
(A) Burnand & Pickett Ltd.	29,966

Architect's comparable estimate is £32,097.

LONDON CC.—Construction of superstructure of Block 1 of Draper-st. redevelopment site (Elephant and Castle area), Southwark, comprising offices and shops, etc.

Thomas & Edge Ltd.	£208,350
Rowley Bros. Ltd.	207,403
Bernard Sunley & Sons Ltd. ...	206,451
W. J. Simms Sons & Cooke Ltd ...	205,041
Leslie & Co. Ltd.	199,671
Y. J. Lovell (London) Ltd. ...	199,273
M. J. Gleeson (Contractors) Ltd. ...	198,299
Wates Ltd.	195,087
(A) Walter Lawrence & Son Ltd. ...	191,472

Architect's comparable estimate is £184,708.

LONDON CC.—Construction of air mains, etc., to provide an additional air-supply to the aeration channels of the old activated-sludge plant at northern outfall works, Beckton, Essex.

Higgs & Hill Ltd.	£96,909
C. J. Sims Ltd.	91,786
John Mowlem & Co. Ltd.	72,897
William Press & Son Ltd.	63,565
Fitzpatrick & Son (Contractors) Ltd.	61,366
(A) A. Waddington & Son Ltd. ...	55,393

Chief engineer's comparable estimate is £73,937.

(GD) LONDON (Air Ministry).—Contracts to the value of £500 or over for week ended July 15:—*Building work:* Brampton Park, Huntingdonshire. A. J. G. Potter & Sons Ltd., High-st., Stanwick, Wellingborough, Northants; Leconfield, Yorks. J. Mather & Son Ltd., Lead-rd., Stoneferry, Hull, Yorks; Middleton St. George, Co. Durham. F. Shepherd & Son Ltd., Blue Bridge-la., Yorks.; Lyneham, Wilts. J. Jarvis & Sons Ltd., 239 Vauxhall Bridge-rd., London, SW1; Watton, Norfolk. Walter Lawrence & Son Ltd., Ventnor-hse., London-st., Swaffham, Norfolk; Spitalgate, Lincs. Bosworth & Wakeford Ltd., Lawford-rd., Rugby; Wattisham, Suffolk. Sadler & Sons, Richmond-rd., Ipswich, Suffolk; Lerwick, Shetlands. William Tawse Ltd., Angusfield, Aberdeen. *Roadwork (reconstruction of overruns, etc.):* Wattisham, Suffolk. Roadworks (1952) Ltd., 57-61 Commercial-rd., Ipswich, Suffolk. *Technical area site development:* Fylingdales Moor, Yorks. A. A. Stuart & Sons (Glasgow) Ltd., 10 Upper Grosvenor-st., London, W1. *Artificers work:* Halton, Bucks. Y. J. Lovell (Bucks) Ltd., Marsham-la., Gerrards Cross, Bucks.; Coltishall, Norfolk. Kyle Stewart (Contractors) Ltd., Ardshiel-hse., Empire-way, Wembley, Middlesex; Horsham St. Faith, Norfolk. Kyle Stewart (Contractors) Ltd., Ardshiel-hse., Empire-way, Wembley, Middlesex; Hartlebury, Worcs. Coleman & Tyas Ltd., Victoria-rd., Bidford-on-Avon, Alcester, Warks. *Painting work:* High Wycombe, Bucks. George Jones & Son (Contractors) Ltd., 278 Kensington Church-st., London, W8.

(GD) LONDON (British Railways).—Contracts placed by Eastern Region:—Holliday & Greenwood Ltd., 11 Buckingham Palace-gdns., London, SW1 for alterations to parcels, ticket and enquiries offices; alterations to staircases to Up and Down platforms; repairs and re-decorations to brick arches; and provision of external pavings to front forecourt and canopy at Chelmsford Station. —Caffin & Co. Ltd., 25 Craven-st., Strand, London, WC2, for construction of crane track at Canning Town wharf and construction of crane track and renewal of river wall at Blackwall (Pepper Warehouse) wharf. —Charles R. Price, Barnsley-rd., Doncaster, for earthworks, stores buildings, foundations to messroom and external works at Doncaster (Decoy) new permanent way depot.—The Cementation Co. Ltd. PO Box 151, 20 Albert Embankment, London, SE11, for construction of concrete underbridge No. 1001E and steel dive-under bridge No. 1001D and earthworks within the confines of the bridges, east of Colchester Station.

(GD) LONDON (British Railways).—Contracts placed by North Eastern Region:—Provision of 4,000 gal. water treatment plant for Gateshead motive power depot; Paterson Engineering Co. Ltd., Glasgow.—Electrical installation work in new premises in Kidacre-st., Leeds; Albert Innes Ltd., Leeds.—Extension of north end of traverser track foundation at York carriage works; F. Shepherd & Son Ltd., York.—Supply, pitching, driving and extracting steel sheet piling in connection with the reconstruction of Bridge No. 16 at Beningbrough, nr. York; Wellerman Bros. Ltd., Sheffield.

(GD) LONDON (British Railways).—Recent contracts placed by North Eastern Region:—The renewal of roof of No. 2 bay in brass foundry at North-rd. wks., Darlington; E. Davis (Fixers) Ltd., York.—Construction of new signal box at Sudforth-la., Kellingley; W. Irwin & Co. Ltd., Leeds.—Provision of piled foundations for district offices at Leeds City Station; Holmpress Piles Ltd., Hull.—Painting of Hammerton-st. diesel depot, Bradford, and Adolphus-st. (Bradford) goods station; Arundel (Contractors) Ltd., Bradford.—Painting of certain stations and buildings in the Darlington, Gateshead and Newcastle areas; W. Latimer & Co. Ltd., Newcastle.

(GD) LONDON (British Railways).—Recent contracts placed by North Eastern Region:—Improvements to houses Nos. 1 to 25 inclusive, Railway-terr., Eaglescliffe; E. Dixon Barker & Son Ltd., West Hartlepool.—Diversion of the River Team in connection with the construction of new marshalling yard, Lamesley; Derek Crough Ltd., Birtley.—Alterations to site for a lift and staircase well at Hull Paragon Station; Quibell & Son Ltd., Hull.—Provision and Installation of a 15-passenger lift at Hull Paragon Station; Congdon & Muir Ltd., Manchester.—Supply and delivery of steel work for Bridge No. 39 at Beeston, nr. Leeds; Butterley Co. Ltd., nr. Derby.—Building work in connection with the installation of a new passenger lift in the Headquarters' building, York; Sorrell (York) Ltd.—Installation of electric lighting, heating and power supply at Croft on permanent way depot; Edmundson Construction Co. Ltd., Leeds.—Painting of Darlington bank top and Northallerton passenger stations and certain other intermediate stations; T. E. Cundy Ltd., Leicester.—Repair of isolated lengths of roadway in the Darlington district, including tar spraying; Northern Roadworks Ltd., Darlington. (Contracts for similar work in the York and West Riding districts have been given to Ibmac Ltd., Bradford.)

(GD) LONDON (Metropolitan Police).—Recent contracts placed:—External painting and repairs and part internal redecorations at Clandon-hse., Kingsgate-ave., Finchley. J. W. Cooper & Sons, £2,602.—External painting and repairs and part internal redecorations at Stoke Newington Police Station and Section-hse. W. T. Ricketts & Sons Ltd., £1,924.—External painting and internal redecorations at Kilmuir-hse., 5 Eaton-pl., SW1. Apletree & Sons, £6,136.—Internal redecorations at Commissioner's Office, Receiver's Office, New Scotland Yard. South London Decorators Ltd., £5,342.

(GD) LONDON (MoW).—Contracts placed for week ended July 9:—*Buckinghamshire:* Extension to Post Office and telephone exchange, Beaconsfield; Harry Chapples Ltd., Highway-wks., Post Office-la., Beaconsfield. *Cambridgeshire:* Erection of Post Office motor transport workshops Ely; S. S. Ambrose & Sons, Cambridge-rd., Ely. *Dorset:* Erection of motor transport workshops at Post Office, Shaftesbury; William Bros. (Shaftesbury) Ltd., 7 Parsons Pool, Shaftesbury. *Kent:* Erection of telephone repeater station and zone switching centre, Tunbridge

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Wells; Lavender McMillan (Contrs.) Ltd., 54 Cheam Common-rd., Worcester Park, Surrey. *Leicestershire:* Internal redecorations at Station Sorting Office, Campbell-st., Leicester; T. E. Cundy & Son Ltd., 28 Belgrave-rd., Leicester. *London:* Internal decorations at Admiralty, Rex-hse., Regent-st., SW1; South London Decorators Ltd., 9-11 Streatham High-rd., SW16.—Internal decoration at Colonial Office, No. 3 Sanctuary-bldgs., Gt. Smith-st., SW1; South London Decorators Ltd., 9-11 Streatham High-rd., SW16.—Internal decoration at The Royal Mint, Tower Hill, EC3; C. & T. Painters Ltd., Mordaunt-rd., Harlesden, NW10. *Renfrewshire:* Erection of telephone exchange, Johnstone; Thaw & Campbell Ltd., 136 Paton-st., Glasgow, E1.

MACCLESFIELD.—Extensions to King's sch. for CBC (A) Cooper Brothers & John Clayton Ltd. £50,564.

MANCHESTER.—Following for TC:—Technical high sch. for Girls at Harpurhey. (A) F. J. Gibson (Builder) Ltd., Wilmslow.—Day sch. for deaf children at Fallowfield. (A) Moston Brick & Building Co. Ltd., Manchester.

NEWBIGGIN.—Erection of prim. sch. at Newbiggin for Northd. CC. (A) R. Anderson (Builders) Ltd., Stanmore-rd., Newcastle-on-Tyne, £52,860.

NEWCASTLE-ON-TYNE.—Alterations to department of dermatology at Royal Victoria Infirmary for United Newcastle Hospitals. Plans by staff architect, H. E. M. Dobson. Quantity surveyors are T. Barrett, Sons & Partners. (A) Harry Kindred (Newcastle). Ltd., 371 West-rd., Newcastle-on-Tyne. £38,570.—Proposed warehouse at Byker for Messrs. Glendenning & Sons. Architects are Arthur & Kirkup, 13 Swinburne-st., Gateshead. (A) R. Anderson Ltd., Stanmore-rd., Newcastle-on-Tyne.

NORTH RIDING.—Erection of jun. sch. at Marske for CC. Architects are J. H. Napper & Partners, 133 Osborne-rd., Newcastle-on-Tyne. (A) Norman Thompson Ltd., Stonehouse-st., Middlesbrough, £59,049.

NORTHUMBERLAND.—Erection of prim. sch. at Kielder for CC. (A) R. Carse & Son Ltd., Prospect-rd., Amble, £42,194.

ST. PANCRAS.—Erection of North London Day College at Stanhope-st., NW1 for LCC. Architects are Hammett & Norton, Sackville-st., W1. (A) Frank R. Freeman Ltd., 13/14 Chapel-st., London, NW1.

SHEFFIELD.—Erection of 114 houses and 19 double garages at Netherthorpe for TC. (A) Reeves Charlesworth Ltd., Wilkinson-st., Sheffield, £280,000.

STANDISH WITH LANGTREE UDC.—Firm price tenders for:—(1) 24 old people's bungalows, warden's flat and communal buildings. (2) Streets, sewers and site works for above development. (A) J. J. Mason, Standish, nr. Wigan, £33,145, and G. & J. Seddon Ltd. Little Hulton, Walkdean, £4,912, respectively.

SUNDERLAND.—Erection of training centre at Humbledon for TC. (A) James Prentice Leeds-st., Sunderland, £67,325.

TYNEMOUTH.—Erection of new premises for Lloyds Bank at Bedford-st. and Percy-st., North Shields. Architects are George H. Gray & Partners, Camden-st., North Shields. (A) R. Anderson Ltd., Stanmore-rd., Newcastle-on-Tyne.

WEST HARTLEPOOL.—Construction of roads and sewers on land west of Catcote-rd. for TC. (A) Direct labour, £90,000.—Erection of 88 dwellings at Central area for TC. (A) G. M. Pearson & Son, Hetton, Co. Durham.

WESTMINSTER.—Construction of an eight-storey garage at Waverton-st., Mayfair, for City C. (A) Bernard Sunley & Sons Ltd., £223,125.

WIGAN.—Erection of 165 houses at Marsh Green for TC. (A) Direct labour, £227,638.

WOKINGHAM.—Erection of 57 dwellings and nine garages at Norreys Barn estate for BC. Boro' S is E. F. Pressey, Henry Cooper & Sons, London-rd., Reading. (A) Francis Brothers (Builders) Ltd., Tilehurst, Reading, £92,927.

YEOVIL.—Erection of 43 houses and 15 garages at Sunningdale estate for BC. L. T. De Mott, architect. Quantities by Venning & Hope, Taunton, Soms. (A) Drury Construction (S.W.) Ltd., 91 Broad Quay, Bristol 2, £79,445.

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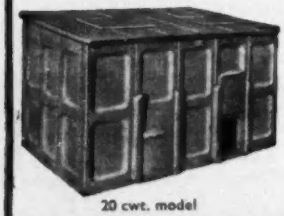

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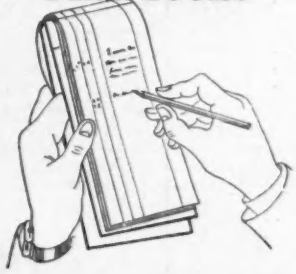

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ATTENTION ADVERTISERS

Classified advertisements in this section can be accepted up to 12 o'clock noon on the TUESDAY prior to issue. It is regretted that advertisements cannot be accepted by telephone.

CONTRACTS

EAST SUSSEX
COUNTY COUNCIL.

UCKFIELD
COUNTY SECONDARY SCHOOL.
TENDERS are invited for the PROVISION OF FOUR ADDITIONAL CLASSROOMS ON TWO FLOORS.
Contractors wishing to tender should apply before 5th AUGUST, 1960, to the County Architect, County Hall, Lewes, Sussex.
Selected Contractors will be provided with Bills of Quantities on 23rd AUGUST, 1960.

EAST SUSSEX
COUNTY COUNCIL.

MARESFIELD BONNERS C.E. (CONTROLLED) SCHOOL.
TENDERS are invited for the PROVISION OF ADDITIONAL ACCOMMODATION and other improvements.
Contractors wishing to tender should apply before 5th AUGUST, 1960, to the County Architect, County Hall, Lewes, Sussex.
Selected Contractors will be provided with Bills of Quantities on 20th AUGUST, 1960.

EAST SUSSEX
COUNTY COUNCIL.

NEWHAVEN
COUNTY SECONDARY SCHOOL.
TENDERS are invited for the PROVISION OF A FOUR-STOREY CLASSROOM BLOCK, CLOAKROOM ACCOMMODATION, GYMNASIUM AND PLAYGROUND EXTENSION, ETC.
Contractors wishing to tender should apply before 5th AUGUST, 1960, to the County Architect, County Hall, Lewes, Sussex.
Selected Contractors will be provided with Bills of Quantities on 20th AUGUST, 1960.

BIRMINGHAM CITY.

TO BUILDING CONTRACTORS.
CONTRACT 715.
14 ONE- AND TWO-STOREY DWELLINGS,
WOODCOCK-LANE, NORTHFIELD.
CONTRACT T.50/17.
TENANTS' MEETING ROOM,
HOLLOWAY, LEY HILL ESTATE,
NORTHFIELD.
The House Building Committee invite FIRM-PRICE TENDERS for the ERECTION OF THE ABOVE.
Bills of Quantities and Forms of Tender will be forwarded on payment of £2 2s. for each contract at the office of A. G. Sheppard Fidler, City Architect, Civic Centre, Birmingham, 1, to whom all cheques should be made payable. Applications should be made by 26th JULY, 1960. Conditions of Contract (which include the usual Fair Wages and Conditions of Labour Clause) may be seen at the City Architect's Office during normal working hours.
The deposits will be returned on receipt of bona fide tenders or on notification of inability to tender, together with the return of the documents not later than three days before the date for receipt of tenders.
Tenders, enclosed in the envelope provided for the purpose, must be sealed and delivered to the Town Clerk's Office (Room No. B.31), Council House, Birmingham, 1, NOT LATER THAN 12 noon on FRIDAY, the 26th AUGUST, 1960. Tenders received after that time will be rejected.
The Committee do not bind themselves to accept the lowest or any tender.
T. H. PARKINSON,
TOWN CLERK.
The Council House,
Birmingham, 1.

ILFORD
BOROUGH.

THREE-STOREY FLATS,
THE GLADE, ILFORD.
The Corporation invite FIRM-PRICE TENDERS for the ERECTION OF TWO BLOCKS OF 12 ONE-BEDROOM FLATS AND FOUR BLOCKS OF 12 TWO-BEDROOM FLATS.
Drawings and Conditions of Contract may be inspected and Bills of Quantities and Form of Tender obtained from the Borough Engineer, Town Hall, Ilford, upon written application and payment of a deposit of £3 3s. which will be returned on receipt of a bona fide tender not subsequently withdrawn.
Tenders, in plain sealed envelopes endorsed "Tender—72 Flats—The Glade, Ilford," but not bearing any name or mark indicating the sender, must be delivered to the Town Clerk, Town Hall, Ilford, not later than 4 p.m. on TUESDAY, 23rd AUGUST, 1960.

LINCOLN CITY.

TRANSPORT REST ROOM, OFFICE AND TWO FLATS.
Fixed price TENDERS are invited for the ERECTION OF THE ABOVE, the construction of which is to be load bearing cavity walls with concrete floor beams and flat roof.
Plans and Conditions of Contract may be examined at, and Bills of Quantities, explanatory drawing and Form of Tender obtained from the City Architect, R. R. Alexander, F.R.I.B.A., M.T.P.I., Stamp End, Lincoln, on payment of a deposit of two guineas (cheques made payable to the Lincoln Corporation) which will be refunded on receipt of a bona fide Tender including relevant documents.
Tenders on the prescribed form, in the plain envelope supplied, bearing no name or mark indicating the sender must be delivered, sealed, to the undersigned not later than 12 NOON on the 15th AUGUST, 1960, endorsed "Tender for Transport Rest Room, Office and Two Flats."
The Council do not bind themselves to accept the lowest or any Tender.
J. HARPER SMITH,
Town Clerk.
Town Clerk's Office,
Saltergate,
Lincoln.

TOTTENHAM
BOROUGH.

WARWICK GARDENS/FAIRFAX/EFFINGHAM ROADS.
76 DWELLINGS
(BLOCKS 2-5 STOREYS HIGH).
Builders wishing to TENDER are requested to notify the Borough Engineer, Town Hall, Tottenham, N.15, not later than 1st AUGUST, 1960, together with £2 2s. deposit, refundable upon the submission of a bona fide tender. Plans may be seen at the Town Hall, N.15.
As soon as possible after the receipt of the deposit, copies of the Bills of Quantities, Form of Tender and all necessary documents will be forwarded to the applicants, stating the closing date for the receipt of tenders.
The Council do not bind themselves to accept the lowest or any tender.
M. LINDSAY TAYLOR,
Town Clerk.
Town Hall,
Tottenham, N.15.

TOTTENHAM
BOROUGH.

127 PARK-LANE,
REVISED SCHEME.
18 FLATS IN 4-STOREY BLOCKS.
Builders wishing to TENDER are requested to notify the Borough Engineer, Town Hall, Tottenham, N.15, not later than 28th JULY, 1960, together with £2 2s. deposit, refundable upon the submission of a bona fide tender. Plans may be seen at the Town Hall, N.15.
As soon as possible after the receipt of the deposit, copies of the Bills of Quantities, Form of Tender and all necessary documents will be forwarded to the applicants, stating the closing date for the receipt of tenders.
The Council do not bind themselves to accept the lowest or any tender.
M. LINDSAY TAYLOR,
Town Clerk.
Town Hall,
Tottenham, N.15.

BOOTLE
COUNTY BOROUGH.

EXTENSIONS TO
CIVIL DEFENCE HEADQUARTERS,
KNOWSLEY-ROAD, BOOTLE.
TENDERS are invited for the above work.
Bills of Quantities obtainable from the Borough Surveyor's Department, Town Hall, Bootle—Deposit two guineas (returnable).
Closing date for tenders 12th AUGUST, 1960.

BRADFORD CITY

ERECTION OF 64 DWELLINGS.
TENDERS are invited for the ERECTION OF 64 DWELLINGS with necessary site works at Bradford-road, Clayton, Bradford.
Drawings and Conditions of Contract may be examined at the offices of the City Engineer and Surveyor, Town Hall, Bradford, 1.
Bills of Quantities and Form of Tender may be obtained from the above office on payment of a deposit of two guineas, returnable on receipt of a bona fide tender.
Tenders in plain sealed envelopes endorsed "Tender for 64 dwellings at Clayton" together with Bills of Quantities priced in ink are in a separate envelope with Tenderer's name thereon, are to be delivered to the undersigned by the 6th SEPTEMBER, 1960.
HENRY PLATTEN,
Town Clerk.
Town Hall,
Bradford, 1.

OLDHAM
EDUCATION COMMITTEE.

HIGGINSHAW SECONDARY MODERN SCHOOL.
TENDERS are invited for the complete works in carrying out STRUCTURAL ALTERATIONS OF THE PREMISES to provide LAVATORY AND STAFF ACCOMMODATION. Architects, F. Thorpe and Whyman, F./A.R.I.B.A., Oldham. Drawings may be inspected and bills of quantities, the form of tender and general conditions of contract may be obtained from Messrs. Cameron and Middleton, F./A.R.I.C.S., Chartered Quantity Surveyors, 21, Queen-street, Oldham, on payment of a deposit of 2 guineas (two pounds two shillings) which will be returned on receipt of a bona fide tender, not subsequently withdrawn. Cheques, etc., to be crossed and made payable to the Oldham Corporation. Tenders will be considered only if they are submitted in the endorsed sealed envelope provided, not bearing any name or mark indicating the sender and delivered to the Director of Education, Education Offices, not later than 10 a.m. on THURSDAY, the 11th AUGUST, 1960. The Committee do not bind themselves to accept the lowest or any tender and the contract will be subject to the Council's standing orders which include a requirement for the provision of sureties.

SALFORD
ROMAN CATHOLIC DIOCESAN TRUSTEES REGISTERED.

ERECTION OF ST. CUTHBERT'S ROMAN CATHOLIC 4 F.E. SECONDARY TECHNICAL SCHOOL, Old Kilnlane, Bolton, Lancashire.
The Salford Roman Catholic Diocesan Trustees propose to appoint a GENERAL CONTRACTOR by Selective Tendering and invite suitable building firms to submit their names for inclusion on a list from which Contractors will be selected and invited to TENDER.
Before final selection is made, all applicants will be asked to supply details of their organisations and experience.
The work included in the Bills of Quantities comprise the erection and completion of a New Four Form Entry, Secondary Technical School, the whole containing approximately 51,727 Feet Superficial together with all ancillary drainage works, roads, paths, paved playcourt areas, boundary walls, and perimeter fencing.
Documents will be issued during AUGUST and a three weeks' tender period will be given for submission of tenders on a Fixed and Fluctuating basis. It is expected that work will begin on site during October and the contract period will not exceed eighteen months.
Applications for inclusion on the first list should be made to Rev. Father G. Larkin, P.P., Salford Roman Catholic Diocesan Trustees Registered, Building Office, 61 Barton-arcade, Barton-square, Manchester 2, by WEDNESDAY, 27th JULY, 1960.
The Trustees do not bind themselves to accept any Tender.
GREENHALGH & WILLIAMS,
Chartered Architects.
Court Chambers,
15 Mawdsley-street,
Bolton.

LEATHERHEAD
URBAN DISTRICT COUNCIL.

TENDERS are invited for the ERECTION OF BUS SHELTER AND PUBLIC CONVENIENCES at Fetcham.
Specification and Drawings obtainable from the Engineer and Surveyor, Red House, Leatherhead.
Tenders to be delivered by NOON on FRIDAY, 19th August, 1960.
J. EDE,
Clerk of the Council.

CUCKFIELD
URBAN DISTRICT COUNCIL.

IMPROVEMENT WORKS IN 31 HOUSES,
HAYWARDS HEATH.
The Council invite TENDERS for IMPROVEMENT WORKS IN THIRTY-ONE OF THE HOUSES in Bentswood-road, Little Bentswood and New England-road, Haywards Heath.
Specifications and Forms of Tender may be obtained from the Housing Manager, Maxwelton, Boltro-road, Haywards Heath.
Tenders, sealed in plain envelopes to be provided and endorsed "Tender—Improvement Works" but bear no name or mark of the sender, must be delivered to the Clerk of the Council at the address below not later than noon on MONDAY, 8th AUGUST, 1960.
The Council do not bind themselves to accept the lowest or any tender and a tender submitted otherwise than as directed will be rejected.
J. A. EVANS,
Clerk of the Council.
Council Offices,
Oaklands,
Boltro-road,
Haywards Heath,
Sussex.
15th July, 1960.

LEEDS
REGIONAL HOSPITAL BOARD.

TO BUILDING CONTRACTORS.
FIXED-PRICE TENDERS are invited for carrying out IMPROVEMENTS TO SANITARY AMENITIES at Clifton Hospital, York.
Applications for Form of Tender and Bills of Quantities accompanied by a deposit of £2 2s. (which will be refunded on receipt of a bona fide tender and other contract documents) must be made to the Architect to the Board at the undermentioned address not later than 12 noon on WEDNESDAY, 27th JULY, 1960. Cheques should be made payable to the "Leeds Regional Hospital Board" and crossed.
A copy of the drawings, Conditions of Tender and Conditions of Contract may be inspected at the office of Messrs. Brierley, Leckenby and Keighley, Chartered Architects, 10 Lendal, York.
Bills of Quantities will be available in mid-August and three weeks will be allowed for tendering.
The Board does not bind itself to accept the lowest or any tender.
Wm. A. SHEE,
Secretary to the Board.
Park Parade,
Harrogate,
Yorks.

LETCHWORTH
URBAN DISTRICT COUNCIL.

ERECTION OF DETACHED HOUSE AND GARAGE.
TENDERS are invited for the ERECTION OF A DETACHED HOUSE AND GARAGE TOGETHER WITH DRAINS, SERVICES AND ALL OTHER ANCILLARY WORKS, at the Letchworth Urban District Council Depot, Icknield Way East, Letchworth, Herts.
Documents may be obtained after 18th July, 1960, from E. L. Johnson, M.I.Mun.E., The Council House, Letchworth, upon payment of £2 2s. 0d. deposit, refundable on receipt of a bona fide Tender, and Conditions of Contract may be inspected in this office during normal working hours. Tenders in the envelope provided should be returned not later than FIRST POST on FRIDAY, 12th AUGUST, 1960.
The Council do not bind themselves to accept the lowest or any Tender.
H. PLINSTON,
Clerk of the Council.
The Council House,
Letchworth,
Herts.

HENDON
BOROUGH.

FLATTED FACTORY, NORTH CIRCULAR-ROAD, HENDON.
The Borough Council invites applications from General Contractors for inclusion in a selected list of TENDERERS for the above contract.
The work will comprise the ERECTION OF A FIVE-STOREY BUILDING AND ELEVATED ROADS AND RETAINING WALLS, all of heavy reinforced concrete construction. The firms applying should furnish particulars of any recent works of a similar type which they have undertaken. The selected firms will receive the Tender documents early in August for return by 12th September.
Applications are to be received by the Borough Engineer and Surveyor, Town Hall, Hendon, London, N.W.4, by 12 NOON on 25th JULY, 1960.
R. H. WILLIAMS,
Town Clerk.
Town Hall,
Hendon, N.W.4.

LEEDS
REGIONAL HOSPITAL BOARD.

TO BUILDING CONTRACTORS.

FIXED-PRICE TENDERS are invited for carrying out MODERNISATION OF THE RECREATION HALL at Clifton Hospital, York.

Applications for Form of Tender and Bills of Quantities accompanied by a deposit of £2 2s. (which will be refunded on receipt of a bona fide tender and other contract documents) must be made to the Architect to the Board at the undermentioned address not later than 12 noon on WEDNESDAY, 27th JULY, 1960. Cheques should be made payable to the "Leeds Regional Hospital Board" and crossed.

A copy of the drawings, Conditions of Tender and Conditions of Contract may be inspected at the office of Messrs. Brierley, Leckenby and Keighley, Chartered Architects, 10 Lendal, York.

Bills of Quantities will be available at the end of July and three weeks will be allowed for tendering.

The Board does not bind itself to accept the lowest or any tender.

Wm. A. SHEE,
Secretary to the Board.

Park Parade,
Harrogate,
Yorks.

WINCHESTER CITY.

REDEVELOPMENT.

The City Council invite TENDERS for works in connection with the ERECTION OF THE FOLLOWING:—

ONE THREE-STOREY BLOCK OF SIX FLATS in Water-lane.

Applications to Tender should be submitted to Messrs. A. S. Wilson & Partners, Chartered Quantity Surveyors of 8 Storey's-gate, Westminster, S.W.1, by THURSDAY, 28th JULY, 1960, enclosing a cheque for £2 2s. payable to Winchester Corporation, which will be refunded on receipt of a bona fide Tender and the return of all documents.

The Bills of Quantities and Form of Tender will be sent to the applicant as soon as the documents become available.

The City Council do not bind themselves to accept the lowest or any Tender.

R. H. McCALL,
Town Clerk.

Guildhall,
Winchester.
1st July, 1960.

NEW SARUM CITY.

ESSEX-SQUARE REDEVELOPMENT, SECTION 1, SALISBURY.

TENDERS are invited for the CONSTRUCTION OF SIX HOUSES, 58 FLATS, FIVE GARAGES TOGETHER WITH OUTBUILDINGS, PAVINGS, DRAINAGE AND ALL ANCILLARY WORKS at Essex-square, West Harnham, Salisbury.

Tenders are to be on a Fixed Price Basis and on Bills of Quantities which will be available on Saturday, 30th July, 1960. Copies of the Bills of Quantities and Form of Tender can be obtained from the City Engineer, The Council House, Salisbury.

Tenders in plain sealed envelopes must be delivered to the undersigned not later than NOON on MONDAY, 29th AUGUST, 1960.

GEO. RICHARDSON,
Town Clerk.

DURHAM
COUNTY COUNCIL.

TENDERS invited:

Pelton Modern School—COMPLETION OF KITCHEN, SMALL HALL AND ASSEMBLY HALL GYMNASIUM.

Ivy House Hostel, Sedgefield—ALTERATIONS.

Application for further details to County Architect, South-street, Durham, not later than 3rd AUGUST, 1960.

J. K. HOPE,
Clerk of the County Council.

Shire Hall,
Durham.

LETCHWORTH
URBAN DISTRICT COUNCIL.

PAINTING AND DECORATIONS, VARIOUS BUILDINGS, ETC.

TENDERS are invited for PAINTING AND DECORATIONS BOTH EXTERNALLY AND INTERNALLY of buildings and equipment situated in various parts of the Urban District, and in one case outside the district.

Documents may be obtained from E. L. Johnson, M.I.Mun.E., Engineer and Surveyor, Council House, Letchworth, on receipt of a deposit of £2 2s. 0d. refundable on return of a bona fide Tender.

Tenders are to be returned by FIRST POST on THURSDAY, 4th AUGUST, in the envelope provided.

H. PLINSTON,
Clerk of the Council.

The Council House,
Broadway,
Letchworth,
Herts.

EAST SUFFOLK
COUNTY COUNCIL.

PROPOSED OFFICES AT LOWESTOFT.

The Council proposes to invite firm price TENDERS from selected builders, for the ERECTION OF A BLOCK OF OFFICES WITH FOUR FLOORS AND A SEMI-BASEMENT, totalling some 19,000 square feet floor area.

Drawings, prepared under the direction of Mr. E. J. Cundliffe, A.R.I.B.A., County Architect, can be seen at the County Hall, Ipswich, and at the County Offices, The Marina, Lowestoft, between 9 a.m. and 5 p.m.

Building Contractors wishing to Tender should submit their names to the County Architect, County Hall, Ipswich, before the 5th AUGUST, 1960. From the names submitted a number of builders will be selected and these will be furnished with Bills of Quantities, etc., on or about the 12th August; builders not selected will be notified at the same time. Tenders are required by the 6th SEPTEMBER, 1960.

SUNDERLAND
COUNTY BOROUGH.

PUBLIC ABATTOIR, MEAT MARKET AND COLD STORE.

TENDERS are invited for the above, comprising LAIRAGES, SLAUGHTER HALLS, STORES, MEAT MARKET, REFRIGERATED COOLING CHAMBERS, FROZEN MEAT STORE and ADMINISTRATION OFFICES — total floor area approximately 47,000 square feet.

Bills of Quantities and Form of Tender obtainable from the Borough Architect, Grange House, Stockton-road, Sunderland, on payment of £2 2s. 0d. deposit refundable on receipt of a bona fide Tender. Cheques payable to "Sunderland Corporation."

Sealed Tenders endorsed "Tender for Public Abattoir and Meat Market, Sunderland" must be received at my office, Town Hall, by 22nd AUGUST, 1960.

G. S. McINTIRE,
Town Clerk.

OXFORDSHIRE
COUNTY COUNCIL.

SOUTH OXFORDSHIRE TECHNICAL COLLEGE.
CONVERSION OF GRAVEL HILL PREMISES.

Contractors wishing to TENDER for the ALTERATIONS AND ADDITIONS to the above school situated off Gravel Hill, Henley, should submit their names to Julian Leathart & Son, F./A.R.I.B.A., Mount Lodge, Sunningdale, Berks., not later than 27th JULY, 1960. The work consists of internal alterations, demolition of out-buildings and the construction of a new boiler house. The Council reserves the right to select from the list of applicants the firms to be invited to submit tenders and does not undertake to accept the lowest or any tender.

GERALD GALE BURKITT,
Clerk of the Council.

ROMFORD
BOROUGH COUNCIL.

ELECTRICAL INSTALLATIONS.

TENDERS are invited for the ELECTRICAL INSTALLATIONS TO 24 FLATS AND 16 HOUSES in the Waterloo-road Redevelopment Area.

Specification, Drawings and Form of Engineer and Surveyor, Town Hall, Tender obtainable from the Borough Romford, on deposit of a cheque for £2 2s. 0d. returnable on receipt by me of a bona fide Tender in the envelope provided by 8th AUGUST.

JOHN E. SYMONS,
Town Clerk.

Town Hall,
Romford.

SOUTHWICK
URBAN DISTRICT COUNCIL.

SOUTHWICK TOWN CENTRE.

Building contractors who wish to be considered for invitation to submit a fixed price TENDER for the ERECTION OF 32 SHOPS, 32 FLATS AND MAISONETTES OVER AND 32 GARAGES IN FOUR THREE-STOREY BLOCKS are asked to register their names with me by not later than 12 NOON on 12th AUGUST, 1960.

Plans of the proposed shops, etc., may be seen on application at this office during normal business hours.

A. R. SHOTT,
Clerk of the Council.

Town Hall,
Southwick,
Sussex.
15th July, 1960.

SOUTHAMPTON
COUNTY BOROUGH.

BOROUGH ENGINEER AND SURVEYOR'S DEPARTMENT.

Southampton C.B.C. invites TENDERS for the following contract on bills of quantities available by 15th AUGUST, 1960:

Contract B.331—ERECTION OF 24 FLATS AND 10 MAISONETTES IN ONE FIVE-STOREY BLOCK ADJOINING SHOPS, Weston Farm Estate.

Applications for tender documents should be received by the Borough Engineer, Civic Centre, Southampton, not later than 10 a.m. on FRIDAY, 29th JULY, 1960.

BERKSHIRE
ROYAL COUNTY

TENDERS are invited for the ERECTION OF AN AMBULANCE STATION in traditional brick construction at Eaglesclose, Ormond-road, Wantage.

Bills of Quantities and Forms of Tender can be obtained on application to the County Architect, Wilton House, Parkside-road, Reading, enclosing a deposit of £2 2s., which will be returned on receipt of a bona fide tender not subsequently withdrawn.

Tenders must be returned in the envelope provided by Noon, on TUESDAY, 16th AUGUST, 1960.

The Council does not bind itself to accept the lowest or any tender.

HORNCHURCH
URBAN DISTRICT COUNCIL.

REBUILDING OF TWO B.I.S.F. HOUSES.

Ravensbourne-crescent, Harold Wood.

Contractors wishing to TENDER for the REBUILDING OF TWO FIRE-DESTROYED IRON AND STEEL HOUSES in Ravensbourne-crescent, Harold Wood, are requested to submit their names to the undersigned not later than 2nd AUGUST, 1960. It is anticipated that the Bills of Quantities, Specification, and Drawings will be available by 31st July, 1960.

P. L. COX,
Clerk of the Council.

Council Offices,
Hornchurch.

DARTFORD
RURAL DISTRICT COUNCIL.

ANNUAL CONTRACTS.

TENDERS are invited for SUPPLYING THE FOLLOWING BUILDING MATERIALS for the year ending 31st March, 1962.

1. PLUMBERS' BRASSWORK, LEAD AND COPPER.
2. SANITARY WARE, ETC.
3. TILED SURROUNDS AND FIRE-PLACE FITTINGS, ETC.
4. TANKS, CYLINDERS AND DUSTBINS.
5. PLASTERBOARD, FENCE POSTS AND NAILS.

Specification and Conditions of Tender can be obtained from the Engineer and Surveyor at address below.

Last day for receipt of Tenders is 29th AUGUST, 1960.

J. H. MILBURN,
Clerk to the Council.

Council Offices,
White Oak,
Swanley,
Kent.

EAST GRINSTEAD
URBAN DISTRICT COUNCIL.

SPORTS PAVILION.

Fixed price TENDERS are invited from firms specialist in the SUPPLY AND ERECTION OF TIMBER OR PRE-FABRICATED CONCRETE BUILDINGS in connection with a sports pavilion incorporating changing rooms, washing and sanitary accommodation, and comprising floor area of 1,670 square feet, to be provided at King George V playing fields, East Grinstead.

Outline drawings, Tender particulars and form of Tender obtainable from Mr. B. J. Cornelius, F.R.I.C.S., Surveyor to the Council, upon payment of a deposit of Two Guineas returnable on receipt of a bona fide Tender and the return of all documents.

Tenders in plain sealed envelopes bearing no name or mark indicating the sender endorsed "K. G. F. Pavilion," to be addressed to the undersigned, returnable by not later than NOON on SATURDAY, 20th AUGUST, 1960.

The Council does not bind itself to accept the lowest or any Tender received.

H. C. JONES,
Clerk of the Council.

Council Offices,
East Court,
East Grinstead,
Sussex.

BILLINGHAM
URBAN DISTRICT COUNCIL.

TOWN CENTRE DEVELOPMENT. CROWN BUILDINGS.

The Urban District Council invites a FIXED-PRICE TENDER FOR THE CONSTRUCTION OF A BUILDING TO BE KNOWN AS "CROWN BUILDINGS" and forming part of the Town Centre development. The building will be mainly single storey (part two storey) and will contain a Bank, a Post Office, and branches of the Ministry of Pensions and the Ministry of Labour. The building will have a total floor area of approximately 9,000 super feet.

Copies of the specification, bills of quantities and form of tender may be obtained from the Consultant Architects, Messrs. Elder and Lester, Midland Bank Chambers, Town-square, Billingham, on payment of a deposit of £5 5s., which will be returned on receipt of a bona fide tender.

Tenders must be delivered to the undersigned in plain envelopes endorsed "Town Centre Development—Crown Buildings," not later than 30th AUGUST, 1960. The Council does not bind itself to accept the lowest or any tender.

FRED M. DAWSON,
Clerk of the Council.

Council Offices,
Haverton Hill,
Billingham,
Co. Durham.

Pointing the way...

TO CONSTANT ACCURACY IN PROPORTIONING AND LOWEST CONCRETE PRODUCTION COSTS

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A complete range . . . 3½T, 5E, 7E, 7S, 10S, 12S and 14S with choice of steel wheels or pneumatics. Folding Hydraulic Weigher and Drag Loader Shovel available for 7S, 10S, 12S and 14S models. *Illustrated literature and prices on request*

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BK 579

EAST GRINSTEAD
URBAN DISTRICT COUNCIL.

BUILDING WORKS.

Fixed Price TENDERS are invited for the MODERNISATION OF NOS. 80 AND 82 QUEEN'S-ROAD, East Grinstead, incorporating a one-storey addition comprising kitchen and bathroom together with maintenance repairs and internal and external redecoration works.

Drawings, Specification and Form of Tender obtainable on application to Mr. B. J. Cornelius, F.R.I.C.S., Surveyor to the Council, upon payment of a deposit of Two Guineas returnable on receipt of a bona fide Tender and the return of all documents.

TENDERS returnable by NOON on SATURDAY, 13th AUGUST, 1960, to the undersigned in the envelope provided.

The Council does not bind itself to accept the lowest or any Tender.

H. C. JONES.
Clerk of the Council.

East Court.
East Grinstead.
Sussex.

HASTINGS
CORPORATION

invite FIXED-PRICE TENDERS for the ERECT'ON OF UP TO 30 DWELLINGS IN ONE- AND TWO-STOREY CONSTRUCTION, AN AGED PERSONS' MEETING ROOM AND 14 GARAGES on the Gate Farm Estate, Hollington.

Applications for documents and Bills of Quantities to be sent to the Borough Engineer, 37 Wellington-square, Hastings, on or before 8th AUGUST, with a deposit of £3 3s. made payable to Hastings Corporation. The deposit will be returned after a bona fide tender is received.

Tenders on the prescribed form, sealed in the envelope provided, and endorsed "Housing Tender—Gate Farm Extension," to be returned to the undersigned not later than 10.30 a.m., 6th SEPTEMBER, 1960, and shall not bear any name or mark indicating the sender.

The Council do not undertake to accept the lowest or any tender.

N. P. LESTER.
Town Clerk.

Town Hall,
Hastings.

EASTBOURNE
COUNTY BOROUGH.

TO BUILDING CONTRACTORS.
EXTENSIONS TO
PRINCES PARK CAFE.

TENDERS are invited for the EXECUTION OF EXTENSIONS TO THE CAFE at Princes Park, Eastbourne, consisting mainly of timber cladding on a light steel frame, giving an additional floor area of approximately 1,300 sq. ft.

Applications to tender must be delivered to the Borough Surveyor, 2 and 4 Saffront-road, Eastbourne, on or before 29th JULY, 1960, and must be accompanied by a deposit cheque for £2 2s. payable to Eastbourne Corporation.

Specification, plans and tender documents will be issued on 3rd AUGUST, 1960, and tenders must be addressed and delivered to the undersigned not later than 12 noon on WEDNESDAY, 24th AUGUST, 1960. No tender will be considered unless sent in a plain sealed envelope, bearing only the words "Extensions to Princes Park Cafe." The lowest or any tender will not necessarily be accepted.

F. H. BUSBY,
Town Clerk.

Town Hall,
Eastbourne.
18th July, 1960.

BROMSGROVE
URBAN DISTRICT COUNCIL.

BARRINGTON-ROAD, RUBERY—
HOUSING ESTATE.
(ERECTION OF 15 HOUSES, FIVE BUNGALOWS AND 15 GARAGES.)

The Council invite TENDERS on a Fixed Price basis for the ERECTION OF NO. 15 HOUSES, FIVE BUNGALOWS and 15 GARAGES on Barrington-road Housing Estate together with DRAINS, PATHS, RETAINING WALLS AND OTHER ANCILLARY WORKS.

Bills of Quantities and Form of Tender will be sent to Builders and Contractors making a written application to the Engineer and Surveyor, Council House, Bromsgrove, not later than Saturday, 13th August, 1960. The application should be accompanied by a deposit of £3 3s. 0d. which sum will be returned upon the receipt of a bona fide Tender, together with all the documents.

Tenders in plain sealed envelopes endorsed "Barrington-road Housing Estate" are to be delivered to the undersigned not later than SATURDAY, 3rd SEPTEMBER, 1960.

Plans may be inspected at the offices of the Engineer and Surveyor, Council House, Bromsgrove, or the Quantity Surveyors, Messrs. Crump and Aplin, National Provincial Bank Chambers, High-street, Bromsgrove, during the usual office hours.

The Council do not bind themselves to accept the lowest or any Tender and any acceptance is subject to the approval of the Ministry of Housing and Local Government.

F. A. JESSOP,
Clerk to the Council.

Council House,
Bromsgrove.
15th July, 1960.

BRISTOL
CITY AND COUNTY.

TO BUILDING CONTRACTORS.

Housing Committee invite TENDERS for ERECTION OF TWO SHOPS, TWO FLATS, AND TWO GARAGES at Teyfant-road, Hartcliffe, Bristol.

Contractors willing to submit Fixed Price Tenders based on Bills of Quantities apply to City Architect, Council House, Bristol, 1, by 3rd AUGUST.

HEMEL HEMPSTEAD
BOROUGH.

ERECTION OF 37 PRECAST
CONCRETE GARAGES.

TENDERS are invited for the ERECTION AND SUPPLY OF 37 PRECAST CONCRETE GARAGES off Paston-road, Hemel Hempstead, including site works.

Tender drawings and documents may be obtained from A. H. Turner, A.M.I.C.E., Borough Engineer, High-street, Hemel Hempstead, at whose office the Conditions of Contract may be inspected during normal working hours.

Tenders in plain sealed envelopes bearing no indication of the sender and endorsed "37 Garages—Paston-road" are to be delivered to me not later than 12 NOON on 5th AUGUST, 1960.

The Corporation do not bind themselves to accept the lowest or any Tender.

C. W. C. T. KIRK,
Town Clerk.

Town Hall,
Hemel Hempstead.
July, 1960.

WANDSWORTH
METROPOLITAN BOROUGH.

HOUSING AT CLAPHAM.

Contractors wishing to TENDER for ERECTION OF 10 TWO-STOREY HOUSES, A SHOP AND FLAT OVER at Prescott-place should submit names to me by 3rd AUGUST, 1960 giving details of experience, plant and technical and supervisory staff available together with names of two technical and two financial referees. Bills of quantities will be issued to selected contractors in due course.

Drawings may be examined at Borough Engineer and Architect's Department at this address.

J. NOEL MARTIN,
Town Clerk.

Municipal Buildings,
Wandsworth, S.W.18.

PUBLIC APPOINTMENTS

DEPTFORD
METROPOLITAN BOROUGH.

CLERK OF WORKS required on multi-storey housing schemes. Salary between £800 and £1,000 according to qualifications and experience. Candidates should possess sound knowledge of building construction and have experience in supervisory capacity on multi-storey housing contracts.

Applications to Town Clerk, Town Hall, New Cross, S.E.14, by 28th JULY, 1960.

SWINDON
BOROUGH.

APPOINTMENT OF
ASSISTANT BUILDING INSPECTOR.

Applications are invited for the above appointment in the Borough Surveyor and Planning Officer's Department at a salary in accordance with A.P.T. Grade II (£765-£880 per annum).

The minimum qualification required is the Higher National Certificate in Building or the Building Inspector's Certificate of the Institution of Municipal Engineers. Candidates must also have had experience in the administration of Improvement Grants under the Housing Acts.

HOUSING ACCOMMODATION will be offered to married candidates from other areas and assistance towards removal expenses may be granted.

Only a skeleton staff is on duty on Saturday mornings.

Applications on form to be obtained from the Town Clerk, Civic Offices, Swindon, must be returned by 9th AUGUST, 1960.

SOUTHALL
BOROUGH.

(A) Appointment of ARCHITECTURAL ASSISTANT.
(B) Appointment of JUNIOR ARCHITECTURAL ASSISTANT.

Applications are invited for the above appointments on the Permanent Staff of the Corporation. Salary (A) Grade II, £765-£880, plus London Weighting; (B) Grade I, £610-£765 plus London Weighting. N.J.C. conditions apply.

Candidates for (A) should have passed the Intermediate examination of the Royal Institute of British Architects or an equivalent and have had practical experience of design and construction.

Candidates for (B) should have had experience in an Architect's office.

Applications, on forms to be obtained from the Borough Engineer and Surveyor, Town Hall, Southall, Middlesex, must be returned to him on or before 2nd AUGUST, 1960.

J. S. SYRETT,
Town Clerk.

The CITY OF COVENTRY
offers
TRAINING OPPORTUNITIES FOR CAREERS IN TOWN PLANNING

for up to TEN CANDIDATES eligible to sit for the Final Examination of the Town Planning Institute (and already exempt from the Intermediate Exam.).

SALARIES :

A.R.I.B.A., A.M.I.C.E., A.M.I.Mun.E., A.R.I.C.S. : £1065-£1220 A.P.T. IV.

Degrees or other approved qualifications within the range of : £610-£1065 A.P.T. I/III.

PRACTICAL EXPERIENCE :

in various aspects of Town Planning will be arranged within the Planning Division.

(City Architect and Planning Officer : Arthur Ling, B.A., F.R.I.B.A., M.T.P.I.)

commencing in Autumn, 1960, for a period of 3 years.

STUDY :

2 days per week during academic sessions will be allowed for a course of study in preparation for the Final Examination of the Town Planning Institute.

HOUSING ACCOMMODATION :

will be granted in approved circumstances—Removal Expenses Loan.

APPLICATION FORMS :

from Department of Architecture and Planning, Council House, Coventry, to be returned by 16th August, 1960

LONDON
COUNTY COUNCIL.

STRUCTURAL ENGINEERS.

Required in Architect's Department, L.C.C., salary up to £1,250, in :—

(a) STRUCTURAL ENGINEERING DIVISION. Extensive programme includes multi-storey flats, schools, offices, warehouses and other buildings.

(b) STRUCTURAL ENGINEERING DIVISION. To deal with applications in respect of special structures under Part IV of the London Building Act (A) Act, 1939, and the constructional By-laws. Interesting work involving consideration of unconventional forms of construction.

(c) DISTRICT SURVEYORS' SERVICE. Work mainly outside involving negotiations with architects, engineers and surveyors and supervision of works in progress.

Good prospects in all these aspects of the Council's work.

Form and particulars from Hubert Bennett, F.R.I.B.A., Architect to Council (EK/B/1638/7C), County Hall, S.E.1.

SALISBURY
CITY COUNCIL.

CIVIC HALL, SALISBURY.

CLERK OF WORKS Required for 18 months' contract starting in October, 1960. Applications are invited from suitably experienced and qualified men. Knowledge of piling, reinforced concrete construction and specialist joinery work an advantage. Applications stating age and qualifications with full details of past experience and salary required, together with the names of two referees, should be sent in writing to the Council's Architects, Messrs. Robert Potter & Richard Hare, F./A.R.I.B.A., De Vaux House, Salisbury, Wilts, by TUESDAY, 2nd AUGUST, 1960.

GEORGE RICHARDSON,
Town Clerk.

LONDON
COUNTY COUNCIL.

BUILDING SURVEYORS.

Architect's Department, L.C.C., has vacancies in Building Regulation Division and District Surveyors' Service for work in connection with applications under the London Building Acts and Byelaws. District Surveyors' offices are located in Metropolitan Boroughs and work involves negotiations with developers and supervision of works in progress.

Up to £1,250, commencing according to qualifications and experience. Form and particulars from Hubert Bennett, F.R.I.B.A., Architect to Council (EK/B/1637/7C), County Hall, S.E.1.

BIRMINGHAM
REGIONAL HOSPITAL BOARD.

ARCHITECT'S DEPARTMENT.

(a) ASSISTANT QUANTITY SURVEYOR (Arch. 9). Salary scale £905-£1,310 per annum. Corporate Membership R.I.C.S. essential.

(b) QUANTITY SURVEYING ASSISTANT (Arch. 10). Salary scale £625-£900 per annum. Inter. R.I.C.S. essential.

(c) SURVEYING ASSISTANT (BUILDING) (Arch. 11). Salary £625-£900 per annum. Inter. R.I.C.S. (Building Division) essential. To assist in survey of existing hospital buildings and preparation of record plans. Must be neat draughtsman with experience in measurement and plotting of surveys to all scales.

Previous hospital experience not essential. All posts superannuable. Five-day week. Applications (quoting appropriate reference) stating qualifications, age, experience, present appointment and salary and names of two referees to Secretary, Birmingham Regional Hospital Board, 10 Augustus-road, Birmingham, 15, by 2nd AUGUST, 1960.

HAYES & HARLINGTON
URBAN DISTRICT COUNCIL.

Applications are invited for :—

ARCHITECTURAL ASSISTANTS (Two). Salary within Grade A.P.T. II, i.e., £765-£880 p.a., plus London "Weighting," 21-25 years, £25 p.a., 26 years and over, £40 p.a. Candidates should have passed the Intermediate Examination of the R.I.B.A. and must have good general architectural experience. Five-day week. Housing accommodation if required will be made available for one of the appointments. Further particulars and conditions of service and form of application obtainable from the undersigned, which when completed must be returned by 8th AUGUST, 1960.

GEORGE HOOPER,
Clerk and Solicitor.

Town Hall,
Hayes,
Middlesex.

DERBY
COUNTY BOROUGH.

BOROUGH ARCHITECT'S
DEPARTMENT.

(a) SENIOR ASSISTANT ARCHITECT, A.P.T. Grade IV (£1,065-£1,220 per annum). Qualifications : A.R.I.B.A.

(b) SENIOR ASSISTANT ARCHITECT, Special Grade (£785-£1,070 per annum). Qualifications. A.R.I.B.A.

(c) JUNIOR ARCHITECT, General Division (£210-£595 per annum). Qualifications : Probationer R.I.B.A. ; *or*

ASSISTANT ARCHITECT, A.P.T. Grade I (£610-£765 per annum). Qualifications : Intermediate R.I.B.A.

(d) SENIOR QUANTITY SURVEYOR, A.P.T. Grade III/IV (£880-£1,220 per annum). Qualifications : A.R.I.C.S. (Quantities) or A.I.Q.S. or A.I.A.S. with appropriate experience.

(e) JUNIOR QUANTITY SURVEYOR, General Division (£210-£595 per annum). Qualifications : Student member R.I.C.S. with previous experience in Quantity Surveyor's Office ; *or*

ASSISTANT QUANTITY SURVEYOR, A.P.T. Grade I (£610-£765 per annum). Qualifications : Intermediate R.I.C.S. with good experience in Working up Bills of Quantities and Final Accounts, measuring on site and Taking off for small works.

Commencing salary according to qualifications and experience. Permanent superannuable appointments, subject to one month's notice and to medical examination. National Conditions of Service.

Forms of application obtainable from and to be returned to the Borough Architect, The Council House, Corporation-street, Derby, not later than WEDNESDAY, 3rd AUGUST, 1960.

N. S. FISHER,
Acting Town Clerk.

5th July, 1960.

BUCKS
COUNTY COUNCIL.

Applications are invited for the position of ASSISTANT COUNTY ARCHITECT, Grade "D," £1,520-£1,755 p.a. Starting salary in accordance with qualifications and experience. The position offers considerable scope to the right man.

The appointment is superannuable and subject to medical examination and applicants should be Associates of the Royal Institute of British Architects.

A weekly allowance of 25s. and return fare home once every two months may be paid for six months to newly appointed married officers of the Council unable to find accommodation.

Applications, on forms provided, must be returned by the 15th AUGUST, 1960.

F. B. POOLEY,
County Architect.

County Offices,
Aylesbury,
Bucks.

NO folds... NO rivets... NO leaks...

in VELFLO Circular Duct Fittings

Smoother flow . . . less noise . . . greater economy! Those are the three great advantages brought to high-velocity air conditioning ductwork by Velflo.

Velflo fittings are made from pressings produced from metal dies and are all welded, so there are no folds, rivets or other projections to cause internal surface friction, and no leaks.

And because they are mass-produced, Velflo fittings are much cheaper than hand-made components.

All standard Velflo fittings will shortly be available from stock anywhere in Britain.

As well as being ideal for high velocity air conditioning systems, Velflo fittings are also eminently suitable for conventional installations . . . dust and fume extraction plant . . . rain and waste water installations . . . pneumatic conveying.

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OXFORD CITY.

CITY ARCHITECT AND PLANNING OFFICER'S DEPARTMENT.

Applications are invited for the undermentioned posts :—

SURVEYING ASSISTANT. Grade Special Classes (within the range £785-£1,070).

Candidates must be qualified members of the Royal Institution of Chartered Surveyors or equivalent and additional qualifications will be an advantage.

The successful applicant will be required to undertake varied duties in the Estates Maintenance Section of the Department, dealing particularly with general maintenance work and alterations, including all repairs, redecoration, etc., for Council buildings (e.g. Municipal offices, schools, shops, markets, houses, etc.). Experience in the work of a Local Authority is desirable. Car allowance on the Council's scale.

ARCHITECTURAL ASSISTANTS. Special Classes/A.P.T. IV (within the range £785-£1,070/£1,065-£1,220).

The successful applicants must be Members of the Royal Institute of British Architects and should have several years' experience, possess a wide knowledge of modern methods of construction and contract procedure, and must be capable of carrying through contracts from sketch stage to completion with minimum supervision. A high standard of design ability and a keen interest in contemporary architecture is expected. Assistants are encouraged to control their own contracts from sketch design onwards. The work will be of a general nature including redevelopment housing.

Suitable housing accommodation will be made available, if required, in connection with the above appointments. Five-day week.

The appointments will be subject to the National Conditions of Service and the successful candidates will be required to pass a medical examination.

Application forms to be obtained from the City Architect and Planning Officer, Town Hall, Oxford. Closing date 6th AUGUST, 1960.

HARRY PLOWMAN,
Town Clerk.

Town Hall,
Oxford.
14th July, 1960.

WIMBLEDON
BOROUGH.

WORKS SUPERINTENDENT, GRADE A.P.T. III.
SALARY £880 TO £1,065 PER ANNUM, PLUS LONDON WEIGHTING.

Applicants should have had considerable experience in Housing Construction and Maintenance, the maintenance of Public Buildings and the control and management of building labour.

Forms of Application from Borough Engineer and Surveyor, Town Hall, Wimbledon, S.W.19, returnable by TUESDAY, 2nd AUGUST, 1960.

LONDON
COUNTY COUNCIL.

ARCHITECT'S DEPARTMENT.

QUANTITY SURVEYING ASSISTANTS Required in Quantities Division for Working-up in connection with major building works.

Salaries up to £950 a year according to experience.

Application form from Hubert Bennett, F.R.I.B.A., the Architect to the Council (EK/B/1554/7A), County Hall, S.E.1.

SLOUGH
BOROUGH.

APPOINTMENT OF
ASSISTANT ARCHITECTS.
GRADE A.P.T. IV
(£1,065-£1,220 per annum) and
JUNIOR ARCHITECTURAL ASSISTANT,
GRADE A.P.T. II
(£765-£880 per annum).

These vacancies arise in consequence of the Council's approval of a MAJOR PROGRAMME OF BUILDING WORKS, including, in addition to normal housing development, 12-storey blocks of flats, factories, shops, and buildings for parks and other municipal functions.

The appointments will be for the duration of the programme, which is estimated will be completed in 3-4 years. The appointments on Grade A.P.T. IV are suited to fully qualified architects who are particularly interested in the application of original thought to the design of buildings for a variety of functions and to whom contemporary architectural design appeals. The junior appointment is particularly suited to students who have passed the intermediate examination and wish to extend their experience in a progressive town, and facilities for part-time release will be arranged for the successful applicant who is pursuing a recognised course of architectural study.

A FIVE-DAY WEEK IS IN OPERATION AND HOUSING ACCOMMODATION will be provided for married candidates, if required.

Persons interested in these appointments are invited to write to the Borough Engineer, Town Hall, Slough, Bucks, giving brief details of their qualifications and experience. He will be pleased to send them details of the programme of design work, together with information which would be of particular interest to those not familiar with Slough in regard to the Department, the town and its surroundings.

SOUTHWARK
METROPOLITAN BOROUGH.

Applications are invited for the following appointments in the Borough Engineer and Surveyor's Department :

(a) QUANTITY SURVEYING ASSISTANT, A.P.T. V (£1,265-£1,420). Candidates must be well qualified and thoroughly experienced, capable of taking off quantities for large housing schemes including multi-storey blocks of flats and of handling final accounts and special subsidy calculations. Unestablished post.

(b) QUANTITY SURVEYING ASSISTANT, A.P.T. IV (£1,110 to £1,265). Candidates must be qualified and experienced for duties including taking off for housing schemes with multi-storey flats, preparing bills of quantities, specifications and estimates. Unestablished post.

(c) QUANTITY SURVEYING ASSISTANT, A.P.T. II (£805 to £920). Candidates must be qualified to Intermediate level and experienced in assisting with taking off, abstracting and billing, and the supervision of contract works in progress. Permanent post.

Council's Conditions of Service of Officers and Superannuation Scheme apply. Medical examination. No housing. Canvassing will disqualify. Further particulars from the undersigned. Closing date FIRST POST on 22nd AUGUST, 1960.

E. J. PITT,
Town Clerk.

Southwark Town Hall,
(Near Elephant & Castle Underground Station),
Walworth-road, S.E.17

SWANSEA
COUNTY BOROUGH.

BOROUGH ARCHITECT'S DEPARTMENT.

Applications are invited for the following posts :

(a) ONE ASSISTANT QUANTITY SURVEYOR. Salary Grade A.P.T. II (£765 to £880 per annum).

Applicants must have passed the INTERMEDIATE examination of the R.I.C.S. (Quantities Sub-Division), and have had considerable experience in abstracting, billing, measuring works on site, and of taking off.

(b) ONE QUANTITY SURVEYING ASSISTANT. Salary Grade C.1 (£595 to £670 per annum).

Applicants must have passed the FIRST PROFESSIONAL EXAMINATION of the R.I.C.S. and had considerable experience in squaring, abstracting, billing and measuring works on site.

The commencing salary of both posts will be within the grade, according to ability and experience.

(c) ONE JUNIOR ASSISTANT QUANTITY SURVEYOR. Salary Grade G.D., at present £210 to £595 according to age.

Applicants must have passed or be exempt from the preliminary examination of the R.I.C.S. and be capable of squaring, abstracting and billing.

Candidates must be under 45 years of age unless in Local Government Service.

The appointments will be subject to the provisions of the Local Government Superannuation Acts and may be terminated by one month's notice on either side.

The successful candidates will be required to pass a medical examination.

Forms of application may be obtained from the Borough Architect, The Guildhall, Swansea, to whom they must be returned not later than 5th AUGUST, 1960.

J. IORWERTH WATKINS,
Town Clerk.

The Guildhall,
Swansea.
13th July, 1960.

SOUTHWARK
METROPOLITAN BOROUGH.

Applications are invited for the following appointments on the establishment of the Borough Engineer and Surveyor's Department :

ARCHITECTURAL ASSISTANTS, A.P.T. I (£650 to £805 p.a.) or A.P.T. II (£805 to £920 p.a.).

Vacancies in design groups dealing with mixed housing and other development. Applicants should possess intermediate R.I.B.A. for A.P.T. II.

Council's Conditions of Service of Officers and Superannuation Scheme apply. Medical examination. No housing. Canvassing will disqualify. Further particulars from the undersigned. Closing date FIRST POST on 22nd AUGUST, 1960.

E. J. PITT,
Town Clerk.

Southwark Town Hall,
(Near Elephant & Castle Underground Station),
Walworth-road, S.E.17

STOKE-ON-TRENT CITY.
CITY ARCHITECT'S DEPARTMENT.

ARCHITECTURAL ASSISTANTS are invited to apply for appointments on Grade A.P.T. II (£765-£880).

Applicants must have passed the Intermediate R.I.B.A. Examination and be studying for the Final Examination. Commencing salary in accordance with qualifications and experience.

Applications should be forwarded to J. R. Piggott., T.D., F.R.I.B.A., City Architect, Kingsway, Stoke-on-Trent, by WEDNESDAY, 10th AUGUST, 1960.

HARRY TAYLOR,
Town Clerk.

MIDDLESEX COUNTY COUNCIL

COUNTY ARCHITECT'S DEPARTMENT

ASSISTANT ARCHITECT, APT V (£1,265-£1,420 p.a.)
ASSISTANT ARCHITECT, APT IV (£1,110-£1,265 p.a.)
ASSISTANT ARCHITECT, Special Grade (£785/£1,070)
plus London Weighting up to £45.
JUNIOR ASSISTANT, APT I (£610/£765)
plus London Weighting up to £40.

The department has in hand a large and interesting programme of works for School Buildings, Technical Colleges, Old People's Homes, Fire Stations and other County Buildings which will be designed under the direction of MR. WHITFIELD LEWIS, F.R.I.B.A., the County Architect. Organization is on a group basis and full scope will be given to Architects who show design ability.

Appropriate professional qualifications are required for all posts and commencing salaries will be assessed according to qualifications and experience. Established appointments subject to prescribed conditions

Application forms (s.a.e.) from The County Architect, 1 Queen Anne's Gate Buildings, Dartmouth Street, S.W.1, returnable by 10th August. (Quote C.979.B.)

AIR MINISTRY.

Works Design Branch requires in LONDON and PROVINCES ARCHITECTURAL ASSISTANTS with adequate training and drawing office experience. O.N.C. (Building) an advantage. Work includes site layouts, sketch plans, working drawings and details for variety of technical and domestic buildings in permanent and semi-permanent construction. Financial assistance and time off given for recognised courses of study. Promotion and pension prospects. 5-day week with 18 days' paid leave per year initially. Overseas tours for which special allowances granted. Salary: in LONDON ranges from £680 (age 25) to £900 p.a. for men; from £673 to £868 p.a. for women; somewhat lower in PROVINCES. Commencing salary dependent on age, qualifications and experience. Applicants, who must be natural born British subjects, should write to AIR MINISTRY, W.G.d., Lacon House, Theobalds-road, London, W.C.1, or apply to any Employment Exchange quoting Kings Cross 891 giving age, details of training, qualifications, full particulars of former posts held and copies of any testimonials. Candidates selected will normally be interviewed in London and certain expenses reimbursed.

AIR MINISTRY

Require JUNIOR and SENIOR WORKERS-UP in Quantities Division in London. Must be fully experienced and competent to Work Up entire Bills of Quantities. Candidates must hold O.N.C. or C. & G. (Quantities) or equivalent technical qualifications. Financial assistance and time off given for recognised courses of study. Promotion and pension prospects. Five-day week with 18 days' paid leave a year initially. Salary ranges (Junior) from £720 (at age 26) to £900, and (Senior) £794 (at age 26) to £1,065. Applicants, who must be natural born British subjects, should write, stating age, qualifications and experience, to the Manager (PE. 1234), Ministry of Labour, Professional and Executive Register, Atlantic House, Farringdon-street, London, E.C.4. No original testimonials should be sent.

NELSON
BOROUGH.

JUNIOR ASSISTANT ARCHITECT.

Applications are invited for the appointment of a JUNIOR ASSISTANT ARCHITECT in the office of the Borough Engineer and Surveyor, at a salary within the scale A.P.T. I-II (£610-£880 per annum), commencing salary in accordance with age and experience.

Applicants should have some experience of an Architect's office and be studying for the R.I.B.A. qualification.

The appointment will be subject to the National Scheme of Conditions of Service, the Local Government Superannuation Acts and to the passing of a medical examination.

Consideration will be given to the provision of housing accommodation.

Applications (endorsed "Junior Assistant Architect") giving details of age, education, qualifications, experience and present salary together with the names and addresses of two referees, to be received by the undersigned not later than FIRST POST on SATURDAY, the 6th AUGUST, 1960.

F. W. ROBERTS,
Town Clerk.

Town Hall,
Nelson.
23rd June, 1960.

BLACKPOOL
COUNTY BOROUGH.

Applications invited for :

ARCHITECTURAL ASSISTANT, A.P.T. I (£610-£765).

Forms, etc., from Arthur Hamilton, B.Sc., A.R.I.B.A., (Borough Surveyor), P.O. Box 17, Municipal Offices, Blackpool.

LEICESTER CITY.

CITY ARCHITECT'S DEPARTMENT.

QUALIFIED ARCHITECTS are required as follows :—

General Section :

GROUP LEADER, Grade A.P.T. IV (£1,065-£1,220).

ASSISTANT ARCHITECTS, Special Grade (£785-£1,070).

Housing Section :

ASSISTANT ARCHITECTS, Special Grade (£785-£1,070).

The commencing salary in the Special Grade posts will be up to maximum according to experience.

Current projects of the General Section include new Municipal Baths and Civic Centre.

The work of the Housing Architects includes the redevelopment of Central Areas.

Previous Local Government experience not essential. Housing accommodation, at an economic rent, will be provided, if necessary.

National Conditions of Service apply.

Applications, stating post applied for, together with names of two referees, should reach the undersigned not later than MONDAY, 8th AUGUST, 1960.

J. H. LLOYD OWEN
City Architect.

10 Loseby-lane,
Leicester.

YORKSHIRE
ELECTRICITY BOARD.

NO. 7 (GRIMSBY) SUB-AREA.
CLERK OF WORKS.

The successful candidate will be responsible for the supervision of various Building and Civil Engineering works within the Sub-Area.

Applicants must have a thorough knowledge of the building trade including experience in connection with reinforced concrete structures and foundations. They must be conversant with plans, specifications, bills of quantities and competent to set out work, give levels and keep all the necessary records and progress reports.

Membership of the Institute of Clerks of Works will be an advantage.

Salary : N.J.B. Class K, Grade 12 (Scale 7), £845-£930 plus personal allowance of £60 per annum.

Applications, giving full details of age, qualifications and experience, together with the names of two referees, should be forwarded to the Manager, Yorkshire Electricity Board, No. 7 (Grimsby) Sub-Area, Moss-road, Grimsby, not later than 2nd AUGUST, 1960.

WEDNESFIELD
URBAN DISTRICT COUNCIL.

ENGINEER AND SURVEYOR'S DEPARTMENT
APPOINTMENT OF
CHIEF ASSISTANT ENGINEER.

Applications are invited for the appointment of CHIEF ASSISTANT ENGINEER at a salary in accordance with A.P.T. Grade IV (£1,065 to £1,220 per annum).

Applicants must have had considerable experience in municipal engineering and have passed the Final Testamur Examination of Municipal Engineers or hold equivalent qualification.

Housing accommodation will be provided, if necessary, and reasonable removal expenses will be paid.

The National Joint Council Conditions of Service will apply and the successful applicant must submit to a medical examination.

The district is developing rapidly and offers exceptional experience.

Applications stating age, qualifications, experience, with the names of two referees must be received by the undersigned by not later than 25th JULY, 1960.

J. HENWOOD JONES,
Clerk of the Council.

Council Offices,
Alfred Squire-road,
Wednesfield,
Staffs.

FLEXPIPE'S EXTRA 2ft LENGTH

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ILFORD
BOROUGH.

BOROUGH ENGINEER'S DEPARTMENT.
ASSISTANT ARCHITECT, GRADE A.P.T. II/III
(£765-£1,065).

Candidates should have passed the Intermediate Examination of the R.I.B.A. or equivalent. Commencing salary within the scales according to qualifications and experience. London Weighting payable in addition. Five-day week.

The candidate appointed will be required for specific work in connection with the design and working drawings for a scheme comprising New Public Baths and Library at Fullwell Cross.

THE COUNCIL IS PREPARED TO CONSIDER, IF NECESSARY, THE PROVISION OF HOUSING ACCOMMODATION.

The appointment will be subject to one month's notice on either side, the provisions of the Local Government Superannuation Acts, National Conditions of Service and medical examination.

Application forms obtainable from the Borough Engineer, Town Hall, Ilford, should be returned not later than 2nd AUGUST.

WEDNESFIELD
URBAN DISTRICT COUNCIL.

ASSISTANT ARCHITECT.

Applications are invited for an experienced ARCHITECT for the above position at a salary in accordance with A.P.T. Grade IV (£1,065 to £1,220).

Wednesfield has a population of approximately 31,000, and is developing rapidly.

A large programme of varied schemes has to be undertaken, and the district is a reception area for overspill population.

The National Joint Council Conditions of Service will apply and the successful candidate will be required to contribute to a Superannuation Scheme and also undergo a medical examination.

Housing accommodation will be provided, if necessary, and reasonable removal expenses will be paid.

Applications stating age, qualifications, experience, with the names of two referees must be received by the undersigned by not later than 25th JULY, 1960.

J. HENWOOD JONES,
Clerk of the Council.

Council Offices,
Alfred Squire-road,
Wednesfield,
Staffs.

ADMIRALTY — NAVY WORKS DEPARTMENT

Architectural Assistants are required in the newly-formed Architects' Branch at Pinner where a wide variety of new works is being handled comprising all forms of accommodation buildings, i.e. for sleeping, messing and recreation of naval personnel, instructional buildings, hospitals, industrial type of buildings in Dockyards, office blocks, housing estates and residences.

Architectural Assistants will work in groups with professional grade Architects.

Candidates are expected to be keen to explore new forms of construction and must be quick and competent draughtsmen. Preference will be given to those who are studying for professional qualifications and successful candidates will be considered for day release to help them in their studies.

Salary (London Rate) starting £570 p.a. (at age 21) to £783 (28 and over): maximum of scale £900 p.a.

Opportunities exist for promotion to Leading grade (salary maximum £1,055) (London Rate) and further prospects for those becoming fully qualified are favourable. Every facility will be given to Assistants to obtain the necessary professional practice for Part III of their final examination.

Five day week—annual leave 18 days rising to 22 after 10 years.

Candidates, who must be British subjects are invited to apply in writing, giving details of qualifications and experience, to Director General, Navy Works, Admiralty, Chamberlain-way, Pinner, Middlesex.

CASTLEFORD
BOROUGH.

APPOINTMENTS IN THE BOROUGH ENGINEER'S DEPARTMENT.

Applications are invited for the following appointments:

SENIOR ASSISTANT ENGINEER. Salary, Special Grade: commencing salary according to qualifications and experience but not less than £905 per annum, rising to £1,070 per annum. Applicants must be Corporate Members of the Institution of Municipal and/or Civil Engineers, and have had experience in a Municipal Engineer's office.

SENIOR ASSISTANT ARCHITECT. Salary, Special Grade: commencing salary according to qualifications and experience but not less than £905 per annum, rising to £1,070 per annum. Applicants must be Associate Members of the R.I.B.A. and/or Registered Architects, and have had some years' practical experience.

ASSISTANT ARCHITECTS (2 required). Salary, Grade A.P.T. II (£765-£880). Applicants should have passed the Intermediate Examination of the R.I.B.A. or its equivalent at one of the recognised Schools of Architecture.

N.J.C. Service conditions; superannuable; terminable by one month's notice on either side. The successful applicants will be required to pass satisfactorily a medical examination.

If required housing accommodation will be provided for successful married applicants.

Applications, on forms obtainable from me, to be returned by the 30th JULY, 1960.

Canvassing disqualifies.

ERNEST HUTCHINSON,
Town Clerk.

Town Hall,
Castleford,
Yorkshire.

WORCESTERSHIRE
COUNTY COUNCIL.

COUNTY ARCHITECT'S DEPARTMENT.

Applications are invited for the positions of:

SENIOR ASSISTANT ARCHITECTS, Grade IV (£1,065-£1,220).

ARCHITECTURAL ASSISTANTS, Grade III (£880-£1,065).

ASSISTANT ARCHITECTS, Special Grade (£785-£1,070).

HEATING ENGINEERING ASSISTANT, Grade II (£765-£880).

The Senior Architects should be qualified members of the R.I.B.A. and should preferably have had some experience of Education work, though this is not essential.

The Assistant Architects are required for Education, Police, Health and Fire Brigade projects of a large and varied nature. Previous experience of these types of contracts is not necessary, but the applicants should have an architectural training, a good knowledge of building construction and practice and be reliable draughtsmen.

The Heating Engineering Assistant is required for work in connection with general fuel economy in County buildings in conjunction with N.I.F.E.S. and will be responsible for the general maintenance of all types of heating equipment, instructing caretakers on operation of it and issuing orders to contractors for necessary repairs, etc. He may also prepare simple drawings and specifications for small heating systems and conversions. This position will give interesting and varied work and experience which could lead to future promotion.

The County Council has a certain amount of housing accommodation for staff and the successful candidates may apply for this as it is available. The Council also makes some allowance towards necessary removal expenses to married applicants.

A five-day week is in operation.

Forms of application may be obtained from L. C. Lomas, F.R.I.B.A., County Architect, 14 Castle-street, Worcester (B.103).

MERTHYR TYDFIL
COUNTY BOROUGH.

BOROUGH ARCHITECT'S DEPARTMENT.
APPOINTMENT OF TECHNICAL ASSISTANT.
QUANTITY SURVEYING SECTION.

Applications are invited for the permanent appointment of a TECHNICAL ASSISTANT in the Quantity Surveying Section of the Borough Architect's Department. Salary grade A.P.T. II (£765-£880 per annum).

Candidates must have a thorough knowledge of quantity surveying. They should be experienced in measuring of building site works, together with preparation of final accounts, as this post carries responsibility for abstracting from final accounts in respect of "Expensive Site Subsidies."

The appointment is subject to the Provisions of the Local Government Acts and to the passing of a medical examination, and is terminable by one month's notice on either side.

Applications, stating age, experience, purchase in this or adjoining boroughs, ments, together with the names of two referees, should be received by the undersigned not later than 13th AUGUST, 1960.

T. S. EVANS,
Town Clerk.

Town Hall,
Merthyr Tydfil.
July, 1960.

CITY OF MANCHESTER

Applications invited from persons with suitable qualifications and experience of the building trade for the position of Director of the Manchester Corporation

Direct Works Organisation

Salary: £3500/£4100 per annum.

Details of appointment and application forms (returnable by 28th July, 1960) from the Town Clerk, Town Hall, Manchester, 2.

LEEDS CITY.

WORKS DEPARTMENT.

Applications are invited for the following posts:

(a) DRAUGHTSMAN, Grade A.P.T. II £765-£880)—two vacancies.

(b) SENIOR QUANTITY SURVEYOR, Grade A.P.T. III (£880-£1,065).

Applicants for:

(a) Should be experienced in carrying out detailed surveys of existing buildings, levelling and the preparation of working drawings for adaptations, alterations and improvements of Corporation properties generally.

(b) Must be experienced in the preparation and pricing of bills of quantities, obtaining particulars and preparing specifications and detailed estimates, site measurement, valuation of works in progress and settlement of final accounts.

The appointments are subject to the provisions of the National Joint Council Service Conditions and Local Government Superannuation Acts, and the successful applicants will be required to pass a medical examination.

Forms of application may be obtained from the Director of Works, Sweet-street, Leeds 11, to whom they should be returned not later than 15th AUGUST, 1960.

NEWCASTLE UNDER LYME
BOROUGH.

Applications are invited for the following established posts:—

(a) SENIOR ARCHITECTURAL ASSISTANT, Grade A.P.T. IV (£1,065-£1,220 p.a.).

(b) ASSISTANT ARCHITECT. Special Grade (£785-£1,070 p.a.).

All applicants must have passed the R.I.B.A. Final Examination, applicants who have recently qualified will be suitable for post (b). Commencing salaries will be in accordance with experience.

Works pending include a Crematorium, Shops, Offices, Flats, Branch Libraries and other interesting projects.

A five-day week is in operation and housing accommodation will be made available in suitable cases.

Application Forms and Conditions of Service may be obtained from the Borough Surveyor, Lancaster Building, Newcastle, Staffordshire, and must be returned to him not later than MONDAY, 1st AUGUST, 1960.

C. J. MORTON,
Town Clerk.

WALTHAMSTOW
BOROUGH.

BOROUGH ARCHITECT'S DEPARTMENT.

Walthamstow is a municipal borough within the County of Essex, population 113,000, rateable value £1,747,737. It is a progressive authority and there is a large programme of interesting architectural and redevelopment schemes to be undertaken.

Applications are invited for the undermentioned vacancies on the permanent staff of the Borough Architect:—

(a) ONE SENIOR ASSISTANT ARCHITECT, A.P.T. IV (£1,065-£1,220).

(b) ONE ASSISTANT ARCHITECT, A.P.T. III (£880-£1,065).

(c) TWO ARCHITECTURAL ASSISTANTS, A.P.T. I-II (£610-£880).

(d) ONE ASSISTANT QUANTITY SURVEYOR, A.P.T. II (£765-£880).

(e) ONE CLERK OF WORKS, A.P.T. II (£765-£880).

The above salaries do not include the London Weighting allowances.

Applicants for post (a) must be professionally qualified and have had extensive experience. Applicants for posts (b), (c) and (d) should have the appropriate qualifications.

Applicants for post (e) should have a thorough knowledge of the building trade and be capable of supervising large housing contracts.

The Council will make 100 per cent. advances to successful applicants for house purchase in this or adjoining boroughs.

Application forms may be obtained from the undersigned.

Closing date for receipt of applications: 5th AUGUST, 1960.

G. A. BLAKELEY,
Town Clerk.

Town Hall.

HAYES & HARLINGTON
U.D.C.

BUILDER'S CLERK required. Salary within Clerical Division, Grade II, i.e., £670-£765 per annum, plus London "Weighting," up to 20 years £15 per annum, 21-25 years £25 per annum, 26 years and over £40 per annum. Candidates should possess a good knowledge of building construction and maintenance work and have considerable experience in a similar capacity with a Local Authority or a Building Contractor. Experience in measuring up for and the operation of Incentive Bonus Schemes an advantage. The working hours are those prevailing in the building industry, i.e. at present 44 hours per week. The Council is unable to assist with the provision of housing accommodation.

Form of application and further particulars and conditions of service obtainable from the undersigned, which when completed must be returned by 8th AUGUST, 1960.

GEORGE HOOPER,
Clerk and Solicitor.

Town Hall,
Hayes,
Middlesex.

RADNORSHIRE
COUNTY COUNCIL.

APPOINTMENT OF ARCHITECTURAL ASSISTANTS.

Applications are invited for the following permanent appointments on the established staff of the County Architect's Department:—

THREE ARCHITECTURAL ASSISTANTS, Salary Grade A.P.T. II (£765-£880 p.a.).

The Council have a varied and interesting building programme on hand including new schools, police houses and old people's homes.

The appointments will be subject to the National Scheme of Conditions of Service; to the Local Government Superannuation Acts and to termination by one month's notice in writing by either party.

Applications stating age, qualifications and experience with the names and addresses of two persons to whom reference may be made must be received by the undersigned not later than the 16th AUGUST, 1960.

D. C. S. LANE,
Clerk of the Council.

County Hall,
Llandrindod Wells,
Radnorshire.

TOTTENHAM
BOROUGH.

Applications are invited for the established post of

GENERAL FOREMAN

for new building works. At the present time, construction of 126 multi-storey flats on the Tewkesbury Estate is in progress.

Salary: A.P.T. Grade II. £765 to £880 per annum plus £25 or £40 p.a. London Weighting allowance according to age.

Applicants must have a thorough knowledge of all branches of the building trade and experience in the organisation of work and handling of labour in the capacity of General Foreman. He will be directly responsible to the Building Manager.

Application form and Conditions of Appointment from Borough Engineer (B), Town Hall, N.15, to whom applications must be delivered not later than WEDNESDAY, 10th AUGUST, 1960.

EAST HAM
COUNTY BOROUGH.

SENIOR ASSISTANT ARCHITECT, A.P.T. III. Salary £880-£1,065 plus London Weighting.

ARCHITECTURAL ASSISTANTS, A.P.T. I. Salary up to £805 per annum including London Weighting.

Subsistence allowances may be granted over a reasonable period to the persons appointed if unable to obtain suitable housing accommodation, necessitating the maintenance of two homes.

Further details and application forms returnable by 5th AUGUST, 1960, from the Town Clerk, Town Hall, East Ham, E.6.

COLLEGE OF ADVANCED TECHNOLOGY, BIRMINGHAM

Applications are invited for the post of:

PRINCIPAL LECTURER IN

BUILDING MANAGEMENT PRACTICE

Candidates must offer high level experience on the contracting side of the building industry, with an appropriate professional qualification, and have specialised in estimating and cost control and either contract planning or site organisation.

Salary - (Men) £1,750 - £1,900

Further particulars and forms of application from the Bursar, College of Advanced Technology, Gosta Green, Birmingham, 4. Applications to be received within 14 days of this advertisement. Please quote R.

K. R. PILLING, Clerk to the Governors.

ENFIELD
BOROUGH.

BOROUGH ENGINEER AND SURVEYOR'S DEPARTMENT.
(Non-County Borough in the County of Middlesex—Population 109,700—Area, 12,400 acres.)

Applications are invited, from suitably qualified persons, for the following permanent appointments:

(1) ASSISTANT ARCHITECT, A.P.T. IV (£1,065-£1,220 plus London Weighting).

(2) ARCHITECTURAL ASSISTANTS (2 No.), A.P.T. III (£880-£1,065 plus London Weighting).

(3) ARCHITECTURAL ASSISTANT, A.P.T. II (£765-£880 plus London Weighting).

(4) JUNIOR ARCHITECTURAL ASSISTANT, A.P.T. I (£610-£765 plus London Weighting).

The commencing salary will be fixed at points within the Scale commensurate with qualifications and experience.

There is a large varied programme of work, including the redevelopment of Clearance Areas and other areas scheduled for Comprehensive Development.

Saturday mornings are normally free from duty.

Application forms, obtainable from H. D. Peake, M.Sc. (Eng.), M.I.C.E., Borough Engineer and Surveyor, 7 Little Park Gardens, Enfield, Middx., must be delivered to the undersigned not later than TUESDAY, 9th AUGUST, 1960.

CYRIL E. C. R. PLATTEN,
Town Clerk.

Public Offices,
Gentleman's-row,
Enfield, Middx.

EAST ANGLIAN
REGIONAL HOSPITAL BOARD.

REGIONAL ARCHITECT'S DEPARTMENT.

The following staff is required to assist in carrying out an increased hospital building programme, a large proportion of which is to be designed and supervised by the staff of the Regional Architect's Department:

(1) ASSISTANT ARCHITECTS.
Salary: £905-£1,310.
Qualification: Registered Architect by examination.

(2) ARCHITECTURAL ASSISTANTS.
Salary: £625-£900.
Qualification: Intermediate R.I.B.A.

(3) ARCHITECTURAL DRAUGHTSMEN.
Salary: £475-£685.
Should have had 3 years' experience in architectural drawing.

The work to be undertaken covers the whole field of hospital architecture, ranging from adaptation schemes to new major development projects.

All posts are superannuable. Five-day week.

Applications stating age, qualifications, experience and details of present position, with names of three referees, to Secretary of Board, 117 Chesterton-road, Cambridge, by 15th AUGUST, 1960.

SHREWSBURY
BOROUGH.

ARCHITECTURAL ASSISTANT.

Applications are invited for the post of ARCHITECTURAL ASSISTANT on the permanent staff of the Borough Surveyor at a salary in accordance with the Special Grade, £785-£1,070 per annum, commencing according to qualifications and experience.

HOUSING ACCOMMODATION will be provided and approved removal expenses paid.

The programme of major works planned includes new sewage disposal works, abattoir, houses and bungalows, shops, public lavatories, and redevelopment in areas of special architectural interest.

Applications stating age, qualifications, experience, and names of two referees to be sent to the Borough Surveyor, Guildhall, Shrewsbury, by WEDNESDAY, 3rd AUGUST, 1960.

S. R. H. LOXTON,
Town Clerk.

TOTTENHAM
BOROUGH.

Applications are invited for the following established post:—

DRAUGHTSMAN (Male or Female), A.P.T. I, £610 to £765 per annum.

London Weighting allowance of £15, £25 or £40 p.a., according to age.

Applicants should have had drawing office experience, preferably on building and/or civil engineering works.

Five-day week; canteen facilities; Sports Club with private accommodation for sports and recreation facilities percentage of removal expenses reimbursed.

Application form and Conditions of Appointment from Borough Engineer (B), Town Hall, Tottenham, N.15 to whom applications must be delivered not later than WEDNESDAY, 10th AUGUST, 1960.

POOLE
BOROUGH.

APPOINTMENT OF CLERK OF WORKS.

Applications are invited for the appointment of the new Borough Architect's Department at a salary of 16 guineas per week in connection with a new Central Clinic and a continuing programme of works is likely to give opportunities in the future.

Applicants should have had considerable experience in building works.

Application forms from Borough Architect, Municipal Buildings, Poole, Dorset, to be returned to the undersigned by the 27th JULY, 1960.

J. G. HILLIER,
Town Clerk.

ISLINGTON
METROPOLITAN BOROUGH.

BOROUGH ENGINEER AND SURVEYOR'S DEPARTMENT.

Applications are invited from persons not more than 50 years of age for the following appointments on the permanent staff:—

(a) TWO SENIOR ARCHITECTURAL ASSISTANTS, Grade A.P.T. V (£1,220-£1,375 p.a.).

(b) TWO ARCHITECTURAL ASSISTANTS, Grade A.P.T. III (£880-£1,065 p.a.).

All plus appropriate London Weighting.

Applicants for:—

(a) Should be Associate Members of the R.I.B.A. with considerable experience including the design and construction of multi-storey housing.

(b) Should have passed the Intermediate examination of the R.I.B.A. and be suitably experienced.

Application forms, returnable by FIRST POST on MONDAY, the 15th AUGUST, 1960, obtainable from Mr. C. N. Cowney, Borough Engineer and Surveyor, Town Hall, Upper-street, N.1.

H. DIXON CLARK,
Town Clerk.

ANGLESEY
COUNTY.

CHIEF ASSISTANT ARCHITECT, GRADE A.P.T. IV.

Applications are invited from appropriately qualified ARCHITECTS for the above appointment within the salary scale £1,065-£1,220.

Applications to the Acting Clerk of the County Council, Shire Hall, Llangefni, Anglesey, by not later than 13th AUGUST, 1960.

CRAWLEY
DEVELOPMENT CORPORATION

invites applications for the post of TEMPORARY CLERK OF WORKS, primarily to supervise the erection of a steel framed factory extension at Crawley. Applicants must have had first class experience in steel framed construction and general building. Membership of the Institute of Clerks of Works an advantage. Basic salary £926 per annum.

Apply on forms from Chief Architect (Vacancy), Broadfield, Crawley, Sussex, by 6th AUGUST, 1960.

HENDON
BOROUGH.

BOROUGH ENGINEER AND SURVEYOR'S DEPARTMENT.
SENIOR ASSISTANT ARCHITECT, GRADE A.P.T. IV.

Applications are invited for the above appointment at a commencing salary according to experience within Grade A.P.T. IV (£1,065 to £1,220, plus London Weighting of £45).

Applicants should be Associate Members of the Royal Institute of British Architects and should have had experience of either housing and redevelopment work, or schools and general building works, and be familiar with modern design and construction methods. The person appointed will have opportunities to work as a member of a group on major projects.

Pensionable post; subject to National Scheme and medical examination. The Council is prepared to consider assistance with housing.

Applications with full details and names and addresses of two referees, must reach the Borough Engineer and Surveyor, Town Hall, Hendon, N.W.4, by MONDAY, 8th AUGUST, 1960.

R. H. WILLIAMS,
Town Clerk.

Town Hall,
Hendon,
N.W.4.

WORTHING
BOROUGH.

BOROUGH ENGINEER'S DEPARTMENT.
ASSISTANT BUILDING SURVEYOR.

Applications are invited for the above appointment at a salary in accordance with Grade A.P.T. II of the National Joint Council's Scale of Salaries, i.e. £765-£880 p.a. commencing salary according to qualifications and experience.

Candidates must have had previous experience with a Local Authority in the examination of deposited building plans, inspection of works and the interpretation of the Bye-laws. A working knowledge of the regulations and licensing conditions under the Petroleum (Consolidation) Act 1928 and the administration of Improvement Grants would be an advantage.

The appointment will be subject to the National Scheme of Conditions of Service of Local Government Officers, to the provisions of the Local Government Superannuation Acts, and to the successful candidate passing satisfactorily a medical examination. The appointment will be terminable by one month's notice on either side.

Applications, endorsed "Assistant Building Surveyor" stating age, qualifications, experience, present and past appointments, with dates, and accompanied by copies of three recent testimonials, should be sent to the Borough Engineer and Surveyor, Town Hall, Worthing, not later than the 2nd AUGUST, 1960.

ERNEST G. TOWNSEND,
Town Clerk.

NORTHAMPTON
COUNTY BOROUGH.

THREE SENIOR ASSISTANT ARCHITECTS, A.P.T. IV-V
(£1,065-£1,375).

Applications are invited for these appointments in Northampton which has an interesting programme of new schools, municipal buildings and multi-storey flats in redevelopment schemes.

Commencing salaries will depend upon ability and experience.

Full particulars and application forms, returnable by 8th AUGUST from Borough Architect, Guildhall, Northampton.

C. E. VIVIAN ROWE,
Town Clerk.

WATFORD
BOROUGH.

Applications are invited for the appointment of BUILDING INSPECTOR at a salary within Grade A.P.T. I (£610-£765).

Candidates should have had experience in a similar capacity and have a good knowledge of building by-laws and planning procedure. Preference will be given to persons holding the Building Inspector's Certificate of the Institution of Municipal Engineers.

Applications stating age, experience, qualifications, past and present appointments and giving the names of two referees to be sent to the undersigned not later than 3rd AUGUST, 1960.

F. C. SAGE,
Borough Engineer.

Town Hall,
Watford,
Herts.

EAST HAM
COUNTY BOROUGH.

BOROUGH ENGINEER'S DEPARTMENT.

Applications are invited for the following temporary appointment:

SENIOR ASSISTANT ARCHITECT, Grade IV, £1,065-£1,220.

London Weighting is paid in addition, and a salary in excess of the minimum may be paid according to qualifications and experience. The appointment is for work on a new Technical College and is expected to be for a period of not less than 3 years.

Further details and application forms returnable by 5th AUGUST, 1960, from the Town Clerk, Town Hall, East Ham, E.6.

WEST SUSSEX
COUNTY COUNCIL.

COUNTY ARCHITECT'S DEPARTMENT.

Applications are invited for the following appointments:—

(a) ASSISTANT ARCHITECT, at a salary in accordance with the Special Grade of the National Scales of Salaries (£785-£1,070). Commencing salary according to experience.

(b) ARCHITECTURAL ASSISTANT, at a salary in accordance with Grade I of the National Scales of Salaries (£610-£765). Commencing salary according to experience.

Further particulars should be obtained from the County Architect, County Hall, Chichester, to whom all detailed applications must be submitted not later than 16th AUGUST, 1960.

T. C. HAYWARD,
Clerk of the County Council.

County Hall,
Chichester.

SURREY
COUNTY COUNCIL.

Applications invited from persons with necessary qualifications for appointment as ASSISTANT ARCHITECT, Grade V (£1,220-£1,375 p.a. plus £45 p.a. London Allowance). Must be A.R.I.B.A.

Applications stating fully age, qualifications, experience and present salary, accompanied by copies of three testimonials, to County Architect, County Hall, Kingston, as soon as possible.

MANCHESTER
CITY ARCHITECT'S OFFICE.

Applications invited for appointment of CLERK OF WORKS (PERMANENT). Salary Grade A.P.T. II, £765-£880 per annum. Five-day week. Removal expenses allowed.

Forms of application from the City Architect, P.O. Box 488, Town Hall, returnable by 2nd AUGUST, 1960.

LEICESTER CITY.

ASSISTANT Required for Building and Estates Surveyor controlling maintenance work on buildings and designing alterations. Applicants should have passed an intermediate examination for A.R.I.C.S. or A.R.I.B.A. They must be capable of preparing drawings and supervising building works. Current driving licence essential. Salary A.P.T. I (£610-£765) or A.P.T. II (£765-£880) according to qualifications and experience. National conditions of service. Superannuation. Medical examination.

Applications to the Engineer and Manager, Water Dept., Bowling Green-street, Leicester, by 31st JULY, 1960.

RAMSGATE
BOROUGH.

QUANTITY SURVEYING ASSISTANT.

Applications are invited for the abovementioned appointment at a salary in accordance with A.P.T. Grade II (£765-£880).

Candidates should have experience in all types of work, measurements of variation and settlement of final accounts.

It is anticipated that the duration of this appointment will be not less than five years.

Applications endorsed "Quantity Surveying Assistant," giving details of qualifications, experience, and the names and addresses of two referees, must be received by the Borough Engineer, Municipal Buildings, Ramsgate, not later than FRIDAY, 5th AUGUST, 1960.

Candidates must disclose whether or not they are related to any member of or the holder of any senior office under the Council.

Canvassing will disqualify.

K. F. SPEAKMAN,
Town Clerk.

BERKSHIRE
ROYAL COUNTY.

CLERK OF WORKS to supervise the ERECTION OF NEW SECONDARY MODERN SCHOOL at Maiden Erlegh, near Reading. Salary £16 16s. per week.

The probable duration of work one year. Candidates must have had practical experience on large building contracts.

Preference will be given to those who have supervised the erection of new schools.

Application Forms and further particulars can be obtained from the County Architect, Wilton House, Parkside-road, Reading.

The return date is the 2nd AUGUST, 1960.

WOKING
U.D.C.

ARCHITECTURAL ASSISTANT.
A.P.T. GRADE SPECIAL
(£785-£1,070).

Applicants for this appointment in Architectural Section of Engineer and Surveyor's Department should be A.R.I.B.A.

Appointment offers competent assistant excellent opportunity for work on variety of architectural projects in a town that has rapidly grown to 63,000 population.

HOUSING ACCOMMODATION if required.

Casual User's car allowance.

Forms of application from Engineer and Surveyor, Council Offices, Woking. Closing date 8th AUGUST, 1960.

BUCKS
COUNTY COUNCIL.

Applications are invited for the following appointments in the County Architect's Department :—

ASSISTANT ARCHITECT, J.N.C. Scale "C," £1,385-£1,620 p.a.

ASSISTANT ARCHITECT, J.N.C. Scale "B," £1,285-£1,485 p.a.

ASSISTANT ARCHITECT, A.P.T. Grade V, £1,220-£1,375 p.a.

The appointments are superannuable and subject to medical examination and applicants should be suitably qualified for architectural appointment.

A weekly allowance of 25s. and return fare home once every two months may be paid for six months to newly appointed married officers of the Council unable to find accommodation.

Applications, on forms provided, must be returned by the 15th AUGUST, 1960.

F. B. POOLEY,
County Architect.

County Offices,
Aylesbury,
Bucks.

LEYTON
BOROUGH
(in the County of Essex).

COMMITTEE FOR EDUCATION.
APPOINTMENT OF
ARCHITECTURAL ASSISTANT.

Applications are invited for the permanent appointment of ARCHITECTURAL ASSISTANT, Grade A.P.T. II, £765-£880 per annum, plus London Weighting. The successful applicant will be employed by the Essex County Council, and will work in the School Architect's Section of the Borough Engineer and Surveyor's Department, Town Hall, Leyton, E.10; a five-day week is operated.

Details and forms of application from the Borough Education Officer, Education Offices, Kirkdale-road, Leytonstone, E.11, to whom they should be returned not later than FRIDAY, the 5th AUGUST, 1960.

BRISTOL
UNIVERSITY.

Applications are invited for the post of ASSISTANT BURSAR (WORKS). Salary scale £1,050-£1,850; initial salary according to qualifications and experience. Family Allowances, superannuation under F.S.S.U.

The holder of the appointment will assist the Bursar in the preparation and execution of all building works in the University.

Further particulars may be obtained from the Registrar, the University, Bristol, 8, to whom applications should be sent by 15th AUGUST.

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SPECIFICATION WRITERS, salary range £A1,340-£A1,525.

DRAUGHTSMEN, STRUCTURAL, salary range £A1,340-£A1,525.

DRAUGHTSMEN, ARCHITECTURAL, salary range £A895-£A1,280.

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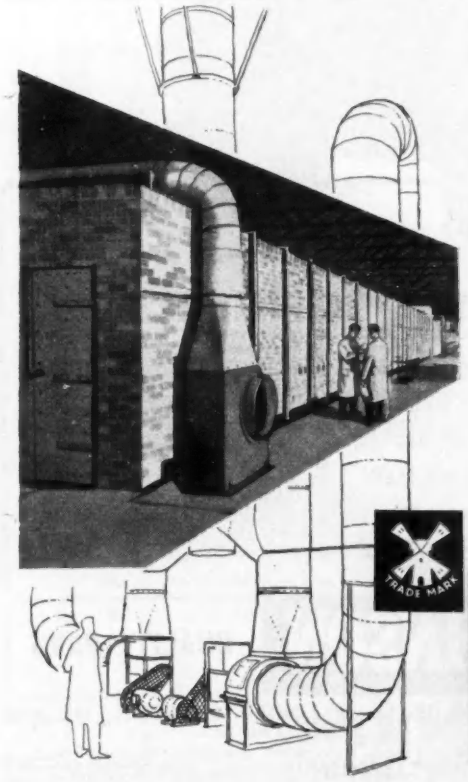

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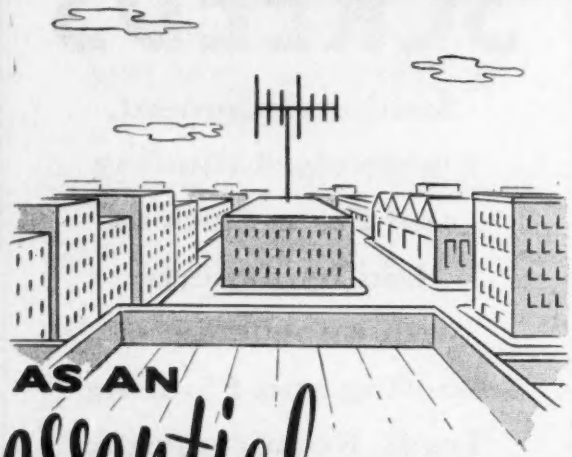

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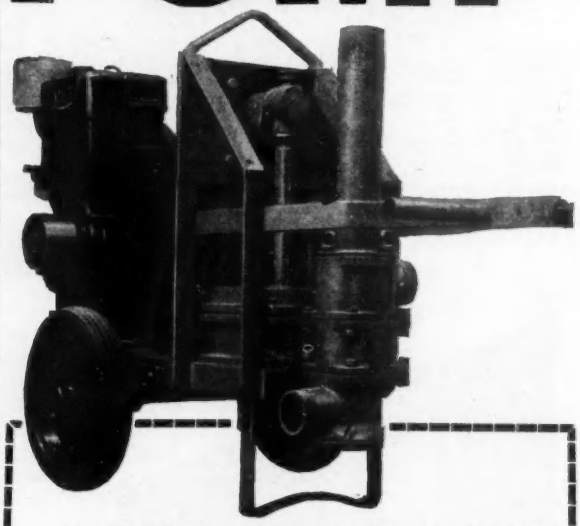

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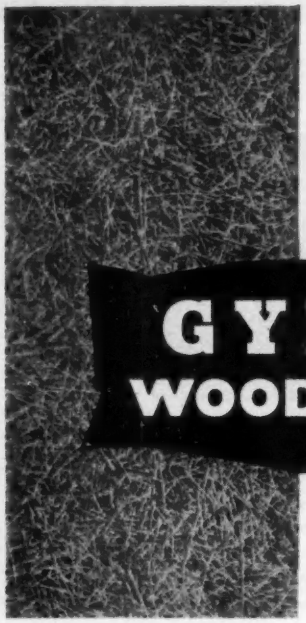

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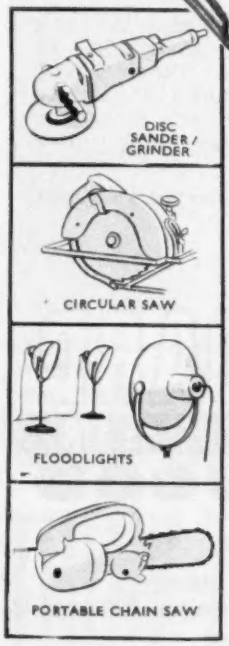

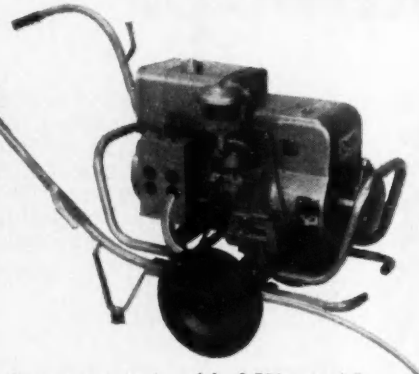

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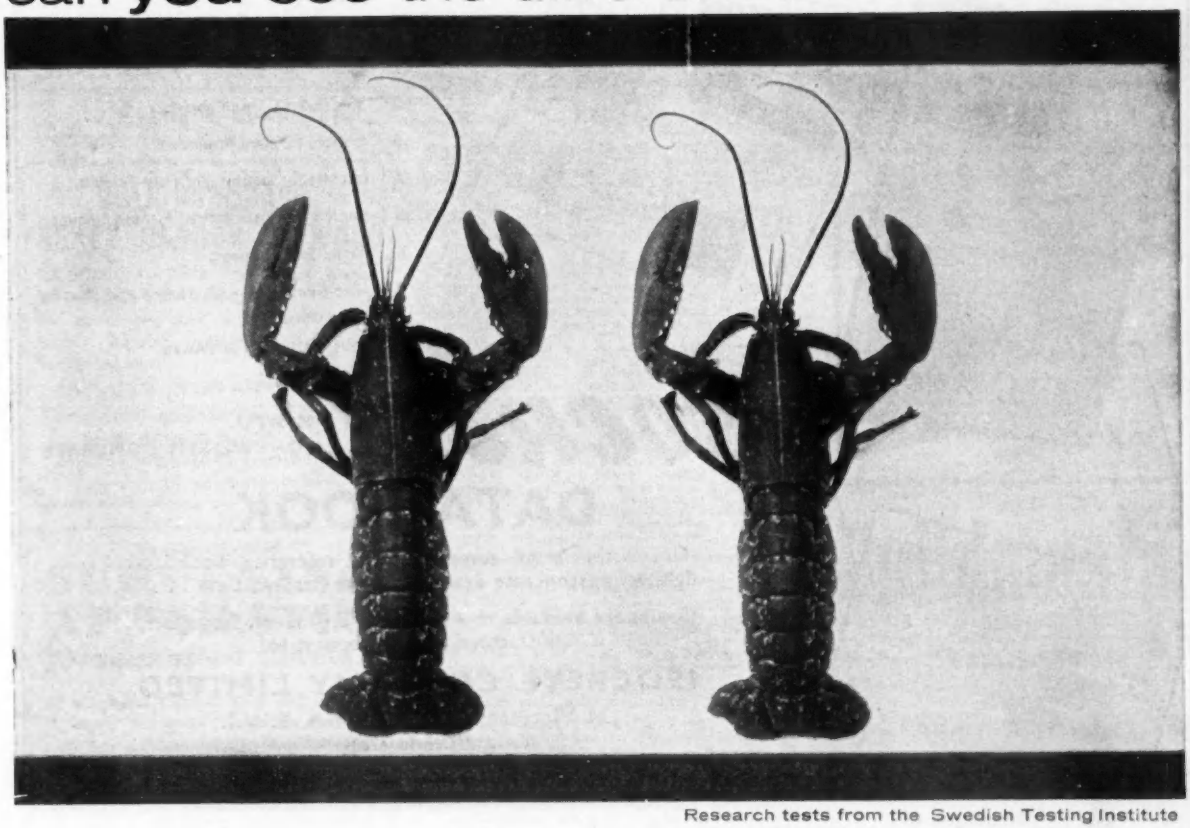

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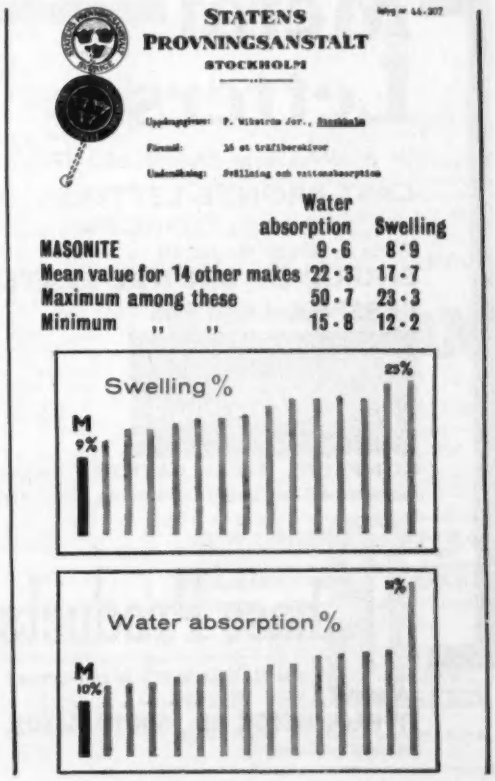

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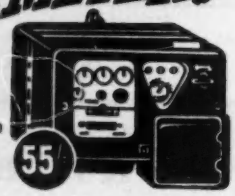

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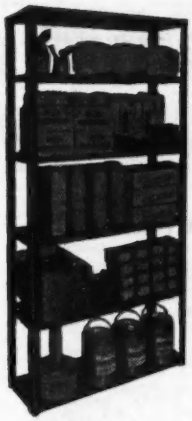

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N.B.—Stoke-on-Trent is not in "The Black Country" and the factory is quite close to rural areas.

Please write to Mr. A. C. McCombie at above address for application form quoting Ref. B/583/TB.

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QUANTITY SURVEYOR Required for preparation of interim and final accounts on Building Contracts.—Apply stating age, experience and salary required to E. TAYLOR & CO., Ltd., Littleborough, Lancs.

ASSISTANT Required to maintain library of information sheets, etc., and also to investigate the uses, methods of application and costs of (new) materials. Need not necessarily be qualified but Taking-off experience essential.—Please send particulars to BASIL M. COHEN, 60 Berners-street, London, W.1.

QUANTITY Surveyors in Victoria-street, S.W.1, Require qualified JUNIOR ASSISTANT keen to widen his experience. Applicants will be required to undertake comprehensive duties within the limits of their ability and salary will be in accordance with enthusiasm as well as experience.—Please reply to Box 197, "The Builder."

QUANTITY SURVEYOR who specialises in Final Accounts Required by Quantity Surveyors in Medway Towns. Good salary and overtime. Car owner an advantage. Two weeks' paid holiday this year.—Reply, giving brief details of experience and age, to Box 278, "The Builder."

ASSISTANT and JUNIOR QUANTITY SURVEYORS Required for North Wales contracts by expanding firm of Contractors. Progressive post with Pension scheme. Write full details of age, experience and salary required.—Box 294, "The Builder."

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TAKER-OFF/MEASURING SURVEYOR. Vacancy in Swansea/Llanelly site offices of firm of Chartered Quantity Surveyors.—Please apply, stating age, experience and salary required, to Box 329, "The Builder."

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QUANTITY SURVEYOR'S ASSISTANT Required in Wrexham, commencing salary £750 per annum.—Apply giving full particulars of age and experience to A. W. WEST, Westminster Bank Chambers, Church-street, Wrexham, Denbs.

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LONDON firm of Chartered Quantity Surveyors Require an ASSISTANT for their office in the Midlands. Measuring on site for interim valuations and preparation of final accounts. Varied contracts. Good prospects.—Write stating age, experience, etc., to Box 407, "The Builder."

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QUALIFIED QUANTITY SURVEYOR Required by MOBIL OIL COMPANY for its Bristol branch office. Applicants should be Associate Members of the Royal Institution of Chartered Surveyors or Associates of the Institute of Quantity Surveyors. They must be able to act on own initiative, capable of preparing estimates, specifications, bills of quantity, interim certificates and final accounts for contracts up to £15,000. Pension scheme and other employee benefits.—Apply to Employment Adviser, MOBIL OIL COMPANY Ltd., Caxton House, Westminster, S.W.1, quoting Ref. QS.4607.

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101, Wigmore Street, W.1,
quoting Ref. GA/60/110

BUILDING SURVEYOR, Intermediate standard with minimum of two years' good office experience, Required for Architect's and Surveyor's office. Used to Specifications and small Building Contracts, some drawing ability an advantage. Five-day week, luncheon vouchers. Salary according to experience up to £700 per annum.—Please reply to Box 918, "The Builder."

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Marston Rd.,
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SURVEYOR'S ASSISTANT Required in Surveyor's Department of holiday organisation. Minimum three years' experience in maintenance repairs and small building works. Office N.W. London. Superannuated post. State salary required.—Reply, with full particulars, to Box 3756, E. G. DUNSTAN & CO., Drayton House, Gordon-street, W.C.1.

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operating on a National scale require the services of a

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Personnel Officer,
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PLASTERING SURVEYOR Required.—Write only, J. H. JENNER (PLASTERERS) Ltd., 179 Hammersmith-grove, London, W.6.

SENIOR COST AND BONUS SURVEYOR Required by prominent London Contractor to take charge of a section covering several important contracts. Must be well experienced in the assessment of targets and site negotiations, and also in the preparation of unit costing returns. Progressive and interesting position for the right applicant.—Write in confidence giving full details of experience in chronological order, and salary required, to Box No. SC.3583, A.K. ADVTG., 212a Shaftesbury-avenue, London, W.C.2.

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BONUS SURVEYOR Required for large London contract. Good prospects and salary for experienced man, pension scheme.—Apply, Planning Officer, THE UNIT CONSTRUCTION CO., Ltd., Central Way, Feltham-road, Feltham, Middlesex. Telephone FEL 5751.

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EXPERIENCED

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Reply giving details to

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Must be fully capable of dealing with sub-Contractors, interim applications, variations and final accounts on all types of contracts. Good salary and working conditions. Pension and life assurance schemes.

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J. Jarvis & Sons Ltd.

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Apply stating age, experience and salary required to, 239, Vauxhall Bridge Road, S.W.1.

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required by progressive Building Company with extensive programme in Leeds-Sheffield area.

Must be fully experienced in site measuring, interim and final accounts and preparation of quantities for estimating purposes.

Write, stating age, experience and salary required.

Chief Surveyor,
INDUSTRIAL DEVELOPMENT & CONSTRUCTION LTD.,
Industrial House,
Stratford-upon-Avon

ASSISTANT SURVEYOR for housing site at Blaenavon, Mon. used to remeasurement and agreement with Local Authority and measuring Sub-Contractors, interim valuations, etc.—Reply, stating age, experience and salary required, to FREDERICK J. MINNS & CO., Ltd., 9 West Way, Botley, Oxford.

ASSISTANT or **TRAINEE SURVEYOR** for Estimating Department of established Contractors, E. London area. H.N.C. desirable. Position offers good prospects, is permanent and pensionable after probationary period.—Write giving details of education, experience and salary required to Box 463, "The Builder."

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SENIOR ASSISTANT Required by London firm of Chartered Quantity Surveyors. Salary up to £1,450 per annum according to age and experience. L.Vs. Five-day week. Overtime paid and pension scheme. —Please apply to Box 332, "The Builder."

TAKER-OFF. Intermediate-Final Standard Required by North London Chartered Quantity Surveyor. Varied work with excellent prospects.—Write, stating age, experience and salary required, Box 270, "The Builder."

CHARTERED QUANTITY SURVEYORS, Westminster, with varied and interesting work, have vacancies for junior TAKERS-OFF and WORKERS-UP. Five-day week and luncheon vouchers.—Write, stating age, experience and salary required, to Box 305, "The Builder."

YOUNG ambitious TAKER-OFF, with some knowledge of estimating and at least 8 years' experience in a Quantity Surveyor's office, Required as personal assistant to partner and chief estimator in connection with large industrial project. Good prospects. Commencing salary £1,200 p.a. plus overtime.—Box 284, "The Builder."

EXPERIENCED TAKER-OFF urgently Required for permanent position in London professional office. Taking-off and Final Accounts. Basic salary up to £1,550 per annum for capable assistant.—Box 325, "The Builder."

JUNIOR TAKER-OFF Required by firm of Chartered Quantity Surveyors in London (A.R.I.C.S. preferred). Salary £750-£950. Luncheon vouchers. Pension scheme. Overtime paid.—Please write, stating age and experience, to Box 333, "The Builder."

GARDINER & THEOBALD have permanent staff vacancies in their London office for Senior and Junior TAKERS-OFF. Luncheon vouchers, pension scheme. Holiday arrangements respected.—Please write, stating age and experience, to 49 Bedford-square, London, W.C.2.

SENIOR TAKER-OFF (A.R.I.C.S.) Required for permanent position in office of London Quantity Surveyors. Salary £2,000 per annum. Pension and Life Assurance scheme, 5-day week.—Write stating experience and age to Box 352, "The Builder."

A SENIOR ASSISTANT Required for permanent position in London Quantity Surveyors' office. The successful applicant will be required to take full technical charge of the preparation of Bills and the subsequent running of Final Accounts. Experience of the preparation of approximate estimates would be an advantage. Qualified man preferred but must be an assistant who is genuinely seeking a permanent position. Commencing salary £1,600 per annum plus overtime.—Box 357, "The Builder."

JUNIOR TAKER-OFF Required by West End Chartered Quantity Surveyor. Salary £800 to £900 p.a.—Reply in writing stating age and experience to Box 979, "The Builder."

TAKER-OFF Required by West End Chartered Quantity Surveyor. Salary £1,000 to £1,200 p.a.—Reply in writing stating age and experience to Box 984, "The Builder."

SENIOR TAKER-OFF Required by West End Chartered Quantity Surveyor. Salary £1,200 to £1,500 p.a.—Reply in writing stating age and experience to Box 961, "The Builder."

TAKER-OFF of Intermediate to Final standard Required by Westminster Quantity Surveyors. Excellent prospects in London Office and opportunities for overseas tours.—Apply, stating age and experience, Box 923, "The Builder."

EXPERIENCED TAKER-OFF Required by Westminster Quantity Surveyors for responsible post. Excellent prospects. Lunch vouchers. Five-day week.—Write stating age, experience and salary required to Box 991, "The Builder."

JUNIOR TAKER-OFF Required by Central London firm of C.Q.S. (A.R.I.C.S. preferred). Salary £750-£950. L.Vs. Five-day week and holiday this year. —Box 982, "The Builder."

SENIOR and JUNIOR TAKERS-OFF Required by West End Chartered Quantity Surveyors for permanent staff.—Write, stating age, experience and salary required, to Box 908, "The Builder."

SENIOR and JUNIOR TAKERS-OFF Required in London office by firm of Chartered Quantity Surveyors.—Apply, stating age, experience and salary required, to Box 157, "The Builder."

TAKER-OFF (A.R.I.C.S.) Required. Chartered Quantity Surveyors' office. South Wales area. Five-day week. Superannuation scheme.—Write, full particulars, to Box 163, "The Builder."

TAKER-OFF Required by Westminster firm of Quantity Surveyors having a varied practice. Intermediate to Final standard preferred. Five-day week. Paid overtime.—Apply, stating experience, age and salary required, to Box 911, "The Builder."

CHARTERED Quantity Surveyor (London, W.1) Requires competent TAKERS-OFF. Highest salary for suitable applicants. Varied and interesting contracts.—Write stating age, experience and salary required to Box 190, "The Builder."

TAKER-OFF Required with not less than 2 years' experience in Taking-off. Some unusually interesting contracts. Please state age, experience and salary required.—BASIL A. COHEN, 60 Berners-street, London, W.1.

TAKERS-OFF of Intermediate to Final Standard Required in the Oxford and Aylesbury offices of HENRY COOPER & SONS.—Apply, stating age, experience and salary required, and office preferred, to 51a Cornmarket-street, Oxford.

TAKER-OFF Required by Reinforced Concrete Specialists. Five-day week and non-contributory Pension scheme.—Please reply giving particulars of experience and salary to Box 395, "The Builder."

AUSTRALIA. Vacancies for TAKERS-OFF, see advert. under heading "Overseas Appointments."

LONDON Chartered Quantity Surveyors Require TAKERS-OFF.—Apply WHEELER, RUMBLE & PARTNERS, 16 Grenville-street, Brunswick-square, W.C.1. TERminus 1107.

TAKER-OFF (recent A.R.I.C.S. or this year's finalist) Required by Chartered Quantity Surveyors near Victoria Station. Permanent appointment to work on large and interesting projects. Pension scheme. Luncheon vouchers.—Write full particulars to Box 409, "The Builder."

JUNIOR TAKER-OFF Required, Quantity Surveyors, Eastern Counties. Pension Fund available.—Apply stating age, experience and salary required, to Box 414, "The Builder."

AN opportunity for a TAKER-OFF with a sound professional training to join an expanding firm of Chartered Quantity Surveyors offering varied and interesting duties including following contracts through to completion. Team spirit essential.—Please write stating age, experience and present salary to RAYMOND PLAYLE, A.R.I.C.S., 96 Eltham-road, S.E.12.

TAKER-OFF Required, recently qualified or final standard, £900-£1,000 per annum basic commencing salary or according to experience. Holiday arrangements respected. Lunch allowance.—V. J. MENDOZA, A.R.I.C.S., 138 Gloucester-place, PAD 4527.

TAKERS-OFF Required, Senior and Junior.—Apply, in writing, with particulars of experience and salary required, to BOND, FOSTER & PARTNERS, 19 Hertford-street, Park-lane, London, W.1.

EXPERIENCED TAKER-OFF Required by London (W.C.2.) firm of Chartered Quantity Surveyors with widely varied practice.—Please reply giving details of experience, age and salary required, to Box 468, "The Builder."

NEW ZEALAND. Junior TAKER-OFF. See "Overseas Appointments."

WORKERS UP

WORKER-UP, with minimum two years' experience, assured early opportunity for site measuring. Good salary for suitable applicant.—Box 269, "The Builder."

WORKER-UP Required by firm of Quantity Surveyors, Westminster. Five-day week and Luncheon Vouchers. Good prospects and opportunities for the right man.—Apply stating age and experience to Box 980, "The Builder."

SENIOR WORKER-UP for London Quantity Surveyors.—Write stating age, details of experience and salary required, to Box 953, "The Builder."

EXPERIENCED WORKER-UP Required by firm of Chartered Quantity Surveyors in West End, London.—Reply stating experience, age, salary required to Box 931, "The Builder."

WORKER-UP Required. Salary range £620 to £950 according to age and experience. Compulsory superannuation. Five-day week.—Apply, R. C. Steel, A.R.I.B.A., Chief Architect, C.W.S. Ltd., 99 Leman-street, E.1.

WORKER-UP for Kensington Quantity Surveyors. Five-day week.—Reply, stating age, experience and salary required, to WALLIS, GILBERT & PARTNERS, 5 Cromwell-road, South Kensington, S.W.7.

EXPERIENCED WORKER-UP Required by London firm of Quantity Surveyors. Salary £1,000 per annum. Pension and Life Assurance scheme. Five-day week. Write stating age and experience.—Box 354, "The Builder."

SENIOR WORKER-UP Required by Chartered Surveyors, Westminster. State experience, age and salary required, to Box 356, "The Builder."

WORKERS-UP Required, Senior and Junior for office of Chartered Quantity Surveyors in the Holborn area.—Box 913, "The Builder."

WORKER-UP for long-term contract at Newport, Mon., Required by firm of Chartered Quantity Surveyors. Rented accommodation available.—Please apply, stating age, experience and salary required, to Box 334, "The Builder."

GARDINER & THEOBALD have permanent staff vacancies in their London office for WORKERS-UP. Luncheon vouchers. Pension scheme. Holiday arrangements respected.—Please write, stating age and experience, to 49 Bedford-square, London, W.C.2.

EXPERIENCED WORKER-UP Required for permanent situation in London professional office. Basic salary up to £1,000 per annum.—Box 324, "The Builder."

EXPERIENCED WORKER-UP Required by busy South Bucks Quantity Surveyors.—Apply, stating age, experience, and salary required, to Box 350, "The Builder."

WORKER-UP Required by Chartered Quantity Surveyors near Strand. Must have had at least 3 years' experience. Excellent opportunity for advancement and good salary to the right person. Five-day week.—Write, Box 323, "The Builder."

BIRMINGHAM QUANTITY SURVEYOR Requires experienced WORKER-UP. Salary £650 per annum plus considerable overtime if required.—Box 349, "The Builder."

WORKER-UP Required, Quantity Surveyors, Eastern Counties. Pension fund available.—Apply stating age, experience and salary required, to Box 413, "The Builder."

WORKER-UP Required in London office by firm of Chartered Quantity Surveyors.—Apply, stating age, experience and salary required, to Box 159, "The Builder."

WORKERS-UP Required for Chartered Quantity Surveyors London office.—Apply WHEELER, RUMBLE & PARTNERS, 16 Grenville-street, Brunswick-square, W.C.1. TERminus 1107.

EXPANDING Chartered Quantity Surveyors Require WORKER-UP with at least three years' professional experience. Team spirit essential.—Write, stating age, experience and present salary, to RAYMOND J. PLAYLE, A.R.I.C.S., 96 Eltham-road, S.E.12.

WORKERS-UP Required, Senior and Junior.—Apply in writing, with particulars of experience and salary required, to BOND, FOSTER & PARTNERS, 19 Hertford-street, Park-lane, London, W.1.

WORKERS-UP with at least 3 years' experience Required by London Chartered Quantity Surveyor in Bloomsbury district.—Please reply stating age, salary required and experience to Box 469, "The Builder."

WORKERS-UP Required by Chartered Quantity Surveyors in W.1. district. Salary £500/£900, according to experience. Overtime available. Luncheon vouchers and non-contributory Pension and Insurance scheme.—Reply Box 480, "The Builder."

ENGINEERS

CHIEF ENGINEER Required by leading Reinforced Concrete Contractors in London. The duties involve the control of a design office engaged in precast and in situ reinforced concrete frames and structures, responsibility for technical control of the company's activities and advising on technical aspects of future development. The firm is progressive and expanding and ample scope is available for advancement to the right man. Attractive salary, pension scheme, annual bonus, etc.—Write, giving full details of experience, age, to Box 238, "The Builder."

CIVIL ENGINEERS or ASSISTANTS

required for permanent staff appointment with Manufacturing Group in the Midlands.

The office is registered with the Institute of Civil Engineers and offers excellent opportunity for gaining experience in all branches of Industrial Factory Construction and Civil Engineering work.

Applicants should have Higher National Certificate in Civil Engineering or Building or similar qualifications, but consideration will be given to applicants working for such qualifications.

Applications should give details of age, experience and salary required, and apply in confidence to

Box No. 246, "The Builder."

STRUCTURAL DESIGN ENGINEER

RICHARD COSTAIN LIMITED

have two vacancies for Structural Design Engineers to work at their Head Office in London. Interesting variety of work in a specialised department including advanced design and novel construction techniques.

Applications are invited from qualified engineers preferably aged 27-32 who have had at least 4 years design and/or site experience. Please address applications to:—

PERSONNEL OFFICER,

111, WESTMINSTER BRIDGE ROAD,

LONDON, S.E.1.

PLANNING ENGINEERS

An exceptional opportunity exists for two PLANNING ENGINEERS of senior capability in the Structural Department of a prominent National building firm. One will be required to take the lead in the general running of a Planning Office engaged on the comprehensive operational programming of Structural and Building contracts. The other will specialise in formwork methods and their application, including the development of special techniques. Both appointments hold genuine prospects for soundly experienced, suitably qualified men. A progressive approach and outlook are vital factors in these appointments rather than precise limits of age, and further explanation and discussion with interested candidates will readily be arranged.

Reply in confidence, with details of age, experience and all relevant personal particulars, to :

Box No. PE 3565, A.K. ADVG.,
212A, Shaftesbury Avenue,
London, W.C.2.

The Company's existing staff are fully informed of the publication of these requirements.

SENIOR and JUNIOR SITE ENGINEERS and QUANTITY SURVEYORS are Required for Civil Engineering and Building Contracts in England and Wales. These are permanent positions with good prospects. Bonus and Superannuation Schemes in operation.—Applications, which will be dealt with in strict confidence, must give details of age, experience, qualifications and salary required and should be addressed to Personnel Officer, TARMAC CIVIL ENGINEERING Ltd., Ettingshall, Wolverhampton.

CIVIL ENGINEERING ASSISTANTS Required in Chief Architect's Department of George Calverley & Sons (Contractors) Ltd. Applicants should have a sound knowledge of: Land surveying on a large scale; Roads and Sewer Work. The department is an expanding one and ample opportunity exists for advancement. A staff pension scheme is in operation for those wishing to make a career with the Company.—Apply, in writing, stating particulars of training, positions held and present salary, to J. L. Heap, A.R.I.B.A., Chief Architect, GEORGE CALVERLEY & SONS (CONTRACTORS), Ltd., Evington Valley-road, Leicester.

ESTIMATORS

SENIOR ESTIMATOR Required for Laboratory Furniture manufacturer in London. Excellent opportunity for experienced man or woman with good knowledge of the laboratory furniture, shop-fitting or joinery trades. Superannuation fund. Holiday arrangements will be respected.—Full details of qualifications and experience, in writing, please, to Box 135, "The Builder."

ESTIMATOR Required with experience of General Building contracts up to £150,000. The firm is a well-established concern with contracts in the West Herts and Bucks areas. The position offers opportunities for increasing responsibility in a growing business.—Please reply in writing stating salary required, to DONALD LOCKHART Ltd., 295 High-street, Berkhamsted. Telephone: 1202.

ESTIMATOR/SURVEYOR Required by well-known West London Building Contractors. Competent and energetic man, able to take full charge of Small Works Department; dealing with building repairs, renovations, painting and decorating. Good prospects and incentive to right man.—Write giving age, experience and salary required to Box 200, "The Builder."

ESTIMATOR/SURVEYOR Required by West London Builders for contracts up to approximately £50,000, experienced in all types of work. Good opportunity for active man with progressive ideas.—Reply stating experience, age and salary required, to Box 201, "The Builder."

SHOPFITTING ESTIMATOR.—Write, in first instance, stating experience and salary required, to R. W. WATES & SONS, Ltd., 83/87 Norwood High-street, S.E.27.

PLASTERING CONTRACTORS Require ESTIMATOR/SURVEYOR, aged 30-35 years, as manager for a newly-formed branch establishment in Bournemouth.—Applicants must have been previously employed by a specialist plastering contractor and should apply in writing, giving details of previous experience and salary required, to the H.A.T. GROUP OF COMPANIES, 3/5 St. Paul's-road, Bristol 8, quoting reference E.S.B.

ESTIMATOR'S ASSISTANT Required by City Builders. Keen and energetic young man with experience of measuring in either Builders' or Quantity Surveyors' offices. Typing an advantage. —Box 263, "The Builder."

ASSISTANT TO ESTIMATOR, fully experienced in final accounts, buying, ordering, tender enquiries, etc. Surrey builders.—Box 287, "The Builder."

EXPERIENCED ESTIMATOR and SURVEYOR Required. Taking-off quantities and pricing same, pricing Bills of Quantities, etc. Old-established Surrey builders. Please reply, in writing, stating age, experience and salary required. Car driver essential.—Box 277, "The Builder."

GALBRAITH BROS. LTD.

require

ASSISTANT ESTIMATORS

for permanent and progressive positions at both London and Crayford Offices. Applicants should have sound knowledge of building up prices and would work directly under supervision of Chief Estimator.

ASSISTANT SURVEYORS

for permanent progressive positions at Crayford Office. Applicants should be capable of taking off quantities, site measuring, preparing valuations etc., and should preferably have knowledge of planning and cost control of contracts.

Apply in writing to Crayford Bridge, Crayford, Kent, stating age, experience and salary required.

J. M. JONES & SONS LTD.

require for their

SMALL WORKS DEPARTMENT

ESTIMATOR—SURVEYOR

This position is a progressive one with Staff Pension and Life Assurance Schemes, assistance with housing if required. Apply stating age, details of general education and technical education, qualifications if any, names of previous employers and in what capacity and, in confidence, details of present appointment, and commencing salary required, to the Secretary,

J. M. Jones & Sons Ltd.,
Highway Works, Maidenhead.

TAYLOR WOODROW

require

BUILDING ESTIMATOR

Applications are invited for capable estimators experienced in all forms of building contract work. Scope of work provides for varied and interesting tendering in London office for overseas contracts.

***Write to:* Personnel Manager,**
Taylor Woodrow Services Limited,
Western House, Western Avenue,
London, W.5

ESTIMATOR/SUPERVISOR

required for Building and Decorating firm in West Middlesex. Specialising in alterations and decorations up to £5,000. Must be able to work on own initiative. Car driver preferred. Write stating age, experience and salary required to

Box No. 196, "The Builder"

ESTIMATOR Required by Ford & Walton, Ltd. Applicants must be fully experienced and have a sound knowledge of modern building methods. Employment will be at Stratford, E.15 until January, 1961, when the Company is moving to new headquarters being built at Wembley Park, Middlesex.—Applications, giving full particulars, to Personnel Manager, FORD & WALTON, Ltd., Walton House, Warton-road, E.15.

ESTIMATOR/SURVEYOR Required by Small Contracts department of Ford & Walton, Ltd. Applicants must be experienced in estimating for contracts up to £25,000. Employment will be at Stratford, E.15, until January, 1961, when the Company is moving to new headquarters being built at Wembley Park, Middlesex.—Applications, giving full particulars, to Personnel Manager, FORD & WALTON, Ltd., Walton House, Warton-road, E.15.

ESTIMATOR/SURVEYOR Required for small works department. The position would be filled best by a young man 24/28 years of age with a good training and some experience in taking-off quantities and preparing estimates from specifications and drawings. After a short probationary period the position will become permanent and pensionable.—Apply, in writing, stating age, particulars of general and technical education, experience and salary anticipated, to DEARSLEY & CARTER, Ltd., 91/3 King-street, W.6.

ESTIMATOR'S ASSISTANT for large London Builders capable of measuring sub-contractors all trades and preparation of small estimates. Excellent opportunity of advancement for keen and reliable young man. Position is permanent. Pension scheme and other amenities.—Box 319, "The Builder."

ESTIMATOR wanted for work-up to approximately £50,000; experience in taking-off own quantities essential; age group 30-35.—Write, with full details of experience and salary required, to BRAZIER & SON, Ltd., 303-305 Portswood-road, Southampton.

ESTIMATOR and **BUILDING SURVEYOR** Required for company operating in the Home Counties. Applicants should be fully experienced in Estimating, Taking-off Quantities and capable of working from drawings and specifications and preparing interim and final accounts.—Write giving details of salary required to Box 400, "The Builder."

ASSISTANT ESTIMATOR/SURVEYOR Required, West London. Capable of taking-off quantities, pricing small contracts. Aged about 25. Progressive position. Good salary and paid overtime. Pension scheme. Five-day week. Holiday arrangements honoured.—Write Box 396, "The Builder."

ASSISTANT ESTIMATOR/SURVEYOR for established builder. The position would suit keen young man with some experience in Site Measuring, Taking-off quantities and preparing estimates from Specifications and Drawings. Good prospects and training to suitable applicant.—Write, giving age, experience, etc., to RUSSELL BROS. (PADDINGTON), Ltd., 421 Harrow-road, London, W.10.

ESTIMATOR/SURVEYOR, experienced with B.O.Q.s and able to supervise and carry job through to completion. Age immaterial.—Write, stating experience, salary required, age, etc., Box 436, "The Builder."

ESTIMATOR/SURVEYOR Required in General Works Department of busy London Builders. Capable of handling enquiries and supervising jobs up to final Account.—Please write, with full details of age, experience, and salary, to Secretary, KILLBY & GAYFORD, Ltd., 87 Worship-street, E.C.2.

ESTIMATOR/SURVEYOR Required for small works department of West London Contractors. Age up to 45. Applicants must have at least 3 years' experience small works. Good salary and contributory pension scheme after satisfactory probationary period.—Write with full details and salary required to Box 479, "The Builder."

ASSISTANT ESTIMATOR/SURVEYOR Required by A. H. ANDERSON Ltd. This company which, in connection with its method of construction known as A.75, provides a comprehensive design and management service, requires a young experienced man able to estimate and prepare final accounts under supervision for various projects using timber, steel and concrete components.—Application in writing to R. Katis, Chief Surveyor, A. H. ANDERSON Ltd., 66 Victoria-street, London, S.W.1.

YEOMANS & PARTNERS LTD.

require a

SENIOR ESTIMATOR

for Building works up to £100,000 in value. We think the right man for this job should be aged about 30/35 with concentrated experience on this range of contract, preferably with two or three firms only.

The successful applicant would be able to share in the prosperity he creates. There is an annual bonus on results. We operate a non-contributory Pension Scheme.

Please send details of age, early training, positions held and salary range contemplated.—Address replies in confidence to **Mrs. Wright, at 44, Upper Berkeley Street, London, W.1.**

ESTIMATOR/SURVEYOR

required by progressive firm N.E. London. Excellent prospects for suitable applicant. Apply in writing, stating age, experience and salary required to

Box No. 921 "The Builder"

ESTIMATOR

* * * * *

Young man required, preferably with some experience of Civil Engineering, structural and building works, and general services in connection with industrial undertakings.

The work will entail the preparation of Scheme Estimates from preliminary information.

Permanent position. Five-day week, luncheon vouchers. Pension Scheme.

Please write, giving full particulars, to the Personnel Manager, W. S. Atkins & Partners, 158, *Victoria Street, London, S.W.*1.

ESTIMATOR/SURVEYOR

required by

OPUS LTD.

Applicants should be fully experienced in pricing bills of quantities for Contracts up to £100,000 and preparing estimates from drawings.

The position is permanent and carries a good salary and pleasant working conditions for the right man.

Apply in writing giving details of age, experience and salary required to :

20, TELFORD AVENUE, LONDON, S.W.2.

YEOMANS & PARTNERS LTD.

require an

ESTIMATOR/SUPERVISOR

for alterations and good class decorations.

The applicant should be aged about 30 and have had some years of experience with a West End of London Firm.

A high standard of estimating experience and ability to organise contracts up to £10,000 in value is required.

We operate an annual bonus scheme and non-contributory Pension arrangement.

Will applicants please state their age and give chronological list of experience, training and positions held and address replies in confidence to Mrs. Wright at **44 Upper Berkeley St., London, W.1.**

Key appointment will shortly be made of

CHIEF ESTIMATOR

in Laboratory Furniture Department of London manufacturer.

Applications in writing giving details of age, experience, etc., are invited in first instance from keen, ambitious men anxious to establish themselves in a progressive Company offering security of employment together with excellent opportunities for advancement. Applicants must have some years experience of estimating in shop-fitting, laboratory furniture or allied trades and control of staff. Superannuation Fund. Holiday arrangements respected.

Box 316, "The Builder"

ESTIMATOR/SURVEYOR

required, medium sized South London Contractors, progressive position. Salary not less than £1,000 p.a.

Box No. 462 "The Builder"

MANAGERS

CONTRACTS MANAGER. Expanding firm of Reinforced Concrete Specialists Require CONTRACTS MANAGER to take charge of outside construction. Considerable experience of single and multi-storey in situ and pre-cast frame construction. Age limit 45. Excellent salary, conditions and prospects, pension and bonus schemes.—Write giving details of age, experience, salary expected, to Box 239, "The Builder."

PAINTING CONTRACTORS Require DIRECTOR-MANAGER for London office. Applicants must give full details of experience, present employer, and at least one referee. In return for integrity and an ability to control labour, a high salary will be offered, also percentage of profits, pension scheme.—Apply, Box 3866, "The Builder."

SENIOR ASSISTANT Contracts Manager/Estimator Required for National firm of Building Contractors. H.O. London.—Write giving age and full details of experience and salary required to Box 3946, "The Builder."

JOINERY MANAGER to take full control of expanding works (at present 18 operatives) dealing mainly in high quality purpose-made and decorative joinery. Must be capable estimator.—Write full details of age, experience, salary, to GEORGE COULTER Ltd., The Vale, Masons Hill, Bromley, Kent. RAV 8877.

CONTRACTS MANAGER, age 25-35. Required by old-established firm of Building Contractors. Position offers good prospects and is pensionable after probationary period. Qualifications should include some previous experience of site supervision and contracts management and A. or L.I.O.B. or H.N.C. —Write brief details of education, experience and salary required, to HAMMOND & MILES, Ltd., Scrafton-road Works, Ilford.

BUILDERS' MANAGER Required for London office. Must have knowledge all trades. Good salary and prospects for a man with enthusiasm and initiative. Car available.—Box 322, "The Builder."

PLANT HIRE ASSISTANT MANAGER. Due to promotion of existing staff a position arises with virile and expanding Plant Hire Company based in North West London. Applicants should have sound basic knowledge of all types Contractor's plant and hire rates, and have the ability to deal promptly and efficiently with telephone enquiries. This is an excellent opportunity for a capable and enthusiastic man to quickly reach Plant Manager status. Basic salary up to £1,000 p.a., plus bonus. Upon appointment to staff a service agreement and superannuation available.—Applications to S. M. Wiles, METROPLANT Ltd., 169/171 Cricklewood Broadway, London, N.W.2 (GLA 7691).

OFFICE MANAGER wanted site near Manchester, 15 months' duration but permanent and pensionable post for right man.—Write full details experience state age and salary required.—Box 373, "The Builder."

THE UNIT CONSTRUCTION COMPANY LIMITED

require a

BUILDING MANAGER

for a tour, in the first instance, of three years in BRITISH WEST INDIES in connection with a housing contract of considerable size to be carried out in Trinidad. Candidates should be not more than 45, have a successful record and be in first class health.

Previous experience in B.W.I. an advantage.

The appointment carries a good salary, generous overseas allowance, free furnished housing, a car, free passage both ways and three months paid leave at end of tour.

Previous applicants who were interviewed are still under consideration and need not re-apply.

Apply by letter only giving details of age, qualifications and experience to:—

The Personnel Director,
The Unit Construction Company Ltd.
Central Way, Faggs Rd., Feltham,
Middlesex.

BUILDING MANAGER/SUPERVISOR with first-class trade background Required by small company of building contractors for work in South Bedfordshire.—Reply giving age, experience and salary required to Box 421, "The Builder."

AREA CONTRACTS MANAGER. An expanding civil engineering and building concern Requires an ENGINEER, about 35 years of age, suitably qualified to supervise contracts in the Midlands area. Experience in industrial building is important, but management ability, drive and ambition are the main requirements.—Applicants should submit full details of experience and qualifications, to Managing Director, INDUSTRIAL DEVELOPMENT & CONSTRUCTION, Ltd., Industrial House, Stratford upon Avon.

ASSISTANT SURVEYOR/CONTRACT MANAGERS Required by A. H. ANDERSON Ltd. This company which, in connection with its method of construction known as A.75, provides a comprehensive design and management service, requires young experienced Surveyor-trained CONTRACT MANAGERS able to control several contracts using timber, steel and concrete components under supervision, ranging from £10,000 to £100,000. This is a real opportunity for the right men in a young expanding company. Applications in writing to The Managing Director, A. H. ANDERSON Ltd., 66 Victoria-street, London, S.W.1.

ASSISTANT TO CONTRACTS MANAGER for medium-sized Building Contractors (Hampshire). Duties to include enquiries, material schedules, orders and supervision. Excellent opportunity for young man with initiative.—Apply stating age, experience and salary required to Box 487, "The Builder."

Joinery Manager

requires

TECHNICAL ASSISTANT

to help in the preparation of details, schedules and orders. Apply in writing stating full particulars of experience and salary required, quoting ref: D.W.

RUSH & TOMPKINS LTD.
109 Station Road,
Sidcup, Kent.

MANAGER

required to take immediate control of a small scaffolding and plant-hire business in S.W. London.

Applicants must have proved and successful experience in sales, estimating, site supervision, costing and office organisation.

Apply in first instance to :—

Box No. 385, "The Builder."

JOHN LAING AND SON LIMITED

offer interesting and progressive careers to

Men holding
O.N.C., H.N.C. or H.N.D. (Building)
or who are of equivalent standard.

Applicants who are interested in the increasingly important field of

PRODUCTION CONTROL

will find opportunities for development and promotion in departments dealing with Progressing, Site Measurement, Method Study, Labour and Material Control and Analysis.

Encouragement given for study, Superannuation Scheme.

Applications stating age to:—

Personnel Manager (P.C.I),
John Laing and Son Limited,
London, N.W.7.

CONTRACTS MANAGER

for leading London **TERRAZZO AND TILING COMPANY** required with appropriate experience in full control of large contracts. Permanent position for keen practical man with current driving licence. Some Italian desirable. Pension scheme. Write fully giving experience, age and salary required to

Box No. 236, "The Builder"

ASSISTANT CONTRACT MANAGER

required by

HUMPHREYS LTD.

Building and Civil Engineering Contractors

199, Knightsbridge, London, S.W.7

for all types of contracts. Must have had experience on work of magnitude and complexity. Substantial salary, good conditions, superannuation, etc., for the right man. Write to Personnel Dept., giving details of experience and when available. Application treated with strictest confidence.

WORKS MANAGER

The rapidly expanding BANBURY BUILDING GROUP require a Works Manager for their Banbury Factory. Only men with previous experience and a sound practical knowledge in pre-cast concrete buildings need apply. First-class salary paid according to experience. Superannuation Scheme available. Apply stating experience and salary required to:

Works Director,
Portable Concrete Buildings Ltd.,
Adderbury, Nr. Banbury, Oxon.

GENERAL MANAGER

with Director status required by nationally-known Organisation of Building, Civil Engineering Contractors & Estate Developers, to take control of Construction Departments.

An exciting job with considerable prospects. Salary appropriate to responsibilities undertaken. Excellent Life Assurance and Pension Scheme in operation. Write in absolute confidence giving full details to:—

Managing Director, **Box No. 244, "The Builder"**

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Plant Department require a DEPOT MANAGER

Duties include control of repair of mechanical and non-mechanical plant, despatching plant to sites, control of transport.

Permanent and pensionable position with expanding organisation.

Apply: Walter Llewellyn & Sons Ltd., 16-20, South Street, Eastbourne.

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A rapidly expanding group of Companies require a Production Manager for their Midland Factory, fully experienced in the production of hydraulically pressed slabs and kerbs. This is a top grade appointment calling for a man with energy, drive and initiative. Superannuation Scheme in force.

Box No. 243, "The Builder"

ASSISTANT TO MANAGER Required. Must be able to order from Bills of Quantities, prepare final accounts and costing.—Apply, stating age, details of general and technical education and experience to WHITE BROS. (HIGH WYCOMBE) Ltd., 161 West Wycombe-road, High Wycombe, Bucks.

CONTRACTS MANAGER Required for Building and Civil Engineering Company for their northern area extending from Lancashire to Scotland. The applicant to be based in Lancashire. Applicants must have a good all round knowledge of building and civil engineering in all its forms, to be able to recruit and supervise site staff and work completely on their own initiative. Remuneration dependent upon applicant's ability. Car provided and Pension scheme after initial trial period.—Reply in confidence to Box 425, "The Builder."

CLERKS OF WORKS

CLERK OF WORKS Required for boarding school in Croydon in pre-cast concrete construction. Approximate value £350,000 (including some brick alterations). Oct. 1960-Dec. 1961.—Apply in writing to ROBERT MATTHEW & JOHNSON-MARSHALL, 24 Park Square East, N.W.1, giving age and details of previous experience, not later than July 31st.

EXPERIENCED CLERK OF WORKS Required in Manchester area by old-established firm of London Quantity Surveyors. Duties will comprise supervision of extensive works for well-known oil company which is expanding rapidly. Salary £1,200 p.a. Period of engagement 18 months to two years. Leave granted every other week for visit to family and expenses paid. Overtime also paid. —Box 227, "The Builder."

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CLERK OF WORKS interested in working with active firm of architects is wanted for the responsible position of visiting and reporting on large buildings under construction.—Apply, in writing, GOLLINS, MELVIN, WARD & PARTNERS, 15 Manchester-square, London, W.1.

CLERK OF WORKS Required for new factory and office block to be built at Crawley, Sussex, commencing mid-August. Contract sum £150,000. Salary up to £1,000 according to experience.—Reply Architects, ANDERS & DALTON, 100 High-road, Ilford, Essex.

GOSPORT. Extensions to R.C. Primary School. CLERK OF WORKS Required immediately. Competent and experienced men only.—Please apply with references, etc., to W. C. MANGAN, Architect, 2 Ribblesdale-place, Preston, Lancs.

CLERK OF WORKS Required early August for Church in course of erection at Whitehaven, Cumberland.—Competent and experienced men only please apply with reference, etc., and when free, to W. C. MANGAN, Architect, 2 Ribblesdale-place, Preston.

CLERK OF WORKS Required by the UNITED KINGDOM ATOMIC ENERGY AUTHORITY, Production Group, Springfields Works, Salwick, Nr. Preston, to be responsible to the Senior Civil Engineer for supervision and organisation of the Building Works Maintenance Group incorporating all building trades. Duties will also include estimating and choice of materials and method of construction of minor additions and alterations to existing chemical plant and auxiliary buildings, carried out by direct labour and contract. Applicants must have served a recognised Building Trades apprenticeship and have had wide experience in a similar capacity of building and civil engineering on large sites. A sound knowledge of up to date building construction and materials is essential, together with experience of working in close liaison with professional staff. Possession of an appropriate H.N.C., Membership of Institute of Clerk of Works, or equivalent, may be an advantage. Salary £1,105-£1,340 per annum. Staff Housing scheme. Contributory Superannuation. Send postcard for application form, quoting reference SF.58/J.64, to Works Secretary, at above address. Closing date: 15th August, 1960.

CLERK OF WORKS Required in October, 1960, by the ZOOLOGICAL SOCIETY OF LONDON for its extensive rebuilding programme. The value of the work will fluctuate, but may amount to £500,000 at times. The appointment will initially be for four years, and may be extended.—Applications, stating age, experience and date available to the Establishments Officer, ZOOLOGICAL SOCIETY OF LONDON, Regent's Park, N.W.1.

CLERK OF WORKS Required for office building, Islington. Nine months' contract.—Apply, giving details of experience and salary required, to Box 437, "The Builder."

CLERK OF WORKS Required by the Trustees of the Borough Market, Southwark, to start in September for about 12 months, to supervise erection of steel framed office block and extensions to Market, also painting contract. Salary offered £1,100 p.a.—Apply to Architects, ARTHUR W. COOKSEY & PARTNERS, 19 Garrick-street, W.C.2. (TEMple Bar 6106/7.)

CLERK OF WORKS Required for new Dental Hospital contract in London. Salary offered, £1,150 per annum and duration of appointment about 3 years, commencing September, 1960. Successful candidate will be required to join National Health Service Superannuation Scheme.—Apply in writing giving full particulars of experience to ADAMS, HOLDEN & PEARSON, 38 Gordon-square, W.C.1.

BUYERS

BUYER Required by well-established S.E. London Contractors, fully conversant with all trades, preparation of schedules and sound experience.—Write, stating age, salary and other details, to Box 928, "The Builder."

CHIEF BUYER Required in progressive and expanding organisation carrying out specialist work. Surveying experience an advantage to deal with multiple duties this position entails.—Box 369, "The Builder."

BUYER Required by expanding firm of Builders engaged in private enterprise estate development. Experience essential in Scheduling Materials for inquiries. Age 25-40.—Write, stating age, experience and salary required, to FEDERATED HOMES, Ltd., 69 East-street, Epsom, Surrey, or telephone Epsom 6121.

COMPETENT BUYER Required for Building/Civil Engineering Contractors. Knowledge of trade, B.O.Q. and drawings essential.—Write, in confidence, with full particulars of experience and salary required, to General Manager, Constructional Department, CAWOOD WHARTON & CO., Ltd., Southlands, Harrogate.

REPRESENTATIVES

OLD-ESTABLISHED Paint Manufacturers of high repute Require ARCHITECTURAL REPRESENTATIVE to introduce an exciting new finish. Applicants must have experience in obtaining specification business. An existing live connection with Architects is most important, and contacts with Council Authorities, Hospital Boards, etc., would be an advantage. First-class remuneration, car and pension scheme.—Apply with full details of experience, to Box 206, "The Builder."

EXCEPTIONAL opportunity for REPRESENTATIVES calling on and having established connections with the Building and allied trades as well as Shipbuilders and their contractors, to carry an additional highly competitive and remunerative line. Representation required in the North of England, the Midlands, London and the Home Counties, South of England and Wales. All replies treated in the strictest confidence. —Representatives interested please write to Box 3625, "The Builder." All letters answered.

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BUILDERS' ASSISTANTS

ASSISTANT wanted for Builder's office, Harrow area. Able to drive light van and assist in office duties. —Telephone BYRon 2412.

BUILDERS' ASSISTANT Required for Jobbing and Small Works Section of Building Contractors' business in the Bournemouth district. Accommodation is available for suitable applicant who must be able to drive car, estimate, supervise labour.—Applications, treated in strict confidence, must state experience, age and salary required, Box 371, "The Builder."

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ASSISTANT for expanding medium-sized Builders carrying out conversions and small works, capable of measuring, preparing time and material A/cs, estimates for minor works. —Write full details age, experience, salary required and when free to H. S. LEE Ltd., 221 St. John's Hill, S.W.11.

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AGENTS

SIR LINDSAY PARKINSON & CO., Ltd., Require AGENTS and GENERAL FOREMEN for speculative housing and flat contracts.—Please reply stating trade and experience to Housing Director, 6 Lambeth-road, S.E.1.

Building and Civil Engineering Contractors operating on a National scale require a

SITE AGENT

and a

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Apply: **Building Manager,**
Box 420, 'The Builder'

SITE AGENT

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Capable men, accustomed to handling Building Contracts in the region of £500,000, are required by leading Building Contractors for their Manchester Branch. Superannuation scheme in operation.

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Competent men between 35–45 years of age able to take full control of large scale Building and Civil Engineering schemes.

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Between 25–30 years of age. Preferably with B.Sc. or Diploma in Civil Engineering and with at least two years mechanical and laboratory experience and with some experience of contract work. Preference for single men.

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For road contracts. Successful applicants will be given some training in Soil Mechanics before proceeding overseas. Preference will be given to single men with B.Sc. or Diploma in Civil Engineering. Previous experience of Soil Mechanics desirable but not essential.

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Preferably between 30–40 years of age and with at least four years site experience on Building and Civil Engineering contracts. Must be conversant with interim valuations and final accounts.

Applications to Personnel Manager,
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offer vacancies in their Contracts Division for varying types of multi-storey and housing contracts throughout Kent, Sussex and Hampshire Area to :—

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SENIOR GENERAL FOREMEN
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The appointments could offer progressive employment to suitable candidates. Good salary and bonuses will be paid according to experience and qualifications.
Apply in writing to :—

CONTRACTS DIRECTOR,
KINGSTON HOUSE, STEPHENSON WAY,
CRAWLEY, SUSSEX.

KYLE, STEWART (CONTRACTORS) LTD.

require

AGENTS AND GENERAL FOREMEN

in London and Home Counties for contracts between £100,000 and £500,000 in value.

Must be experienced in all aspects of the trade, possess drive and initiative and up-to-date knowledge of mechanical plant management.

Participation in Company's Bonus and Pension Schemes. Salary four figures offered to successful applicants who will have opportunity for advancement to the position of Contracts Manager.

Apply in writing, stating experience and salary required to:

Managing Director, Kyle, Stewart (Contractors) Ltd., Ardshiel House, Empire Way, Wembley, Middlesex

NATIONAL BUILDING AND CIVIL ENGINEERING CONTRACTORS

nvite applications from experienced men for the following positions.

AGENTS

for control of major contracts. Good experience in reinforced concrete construction essential, together with knowledge of modern methods of construction and planning.

GENERAL FOREMAN

preferably carpenter trained and with experience in charge of reinforced concrete construction.

SECTION FOREMEN

preferably carpenter trained and with experience in charge of smaller contracts or previous experience in charge of part of larger works.

The appointments will be to the permanent staff and offer interesting and varied work with excellent opportunities for advancement to more responsible positions.

Please send full details, in confidence, to

Box NB 3561, A.K. Advtg.,
212a, SHAFTESBURY AVENUE, LONDON, W.C.2.

WM. AIREY & SON (LEEDS) LTD.

SITE AGENTS

Site Agents are required who have been craft trained, had experience on major industrial projects and had control of contracts up to a value of £500,000. Sites to be controlled are all in the Leeds and West Riding area.

The Company has an attractive salary policy and a contract of employment will be offered to the successful candidates at a salary commensurate with their experience.

Apply in writing to:
WM. AIREY & SON (Leeds) LTD.,
Eldon House, Woodhouse Lane, Leeds, 2.

SENIOR AGENT/GENERAL FOREMAN Required for high-class Housing Department. Must be thoroughly competent to set out and supervise construction of Estate Roads, Sewers and Domestic Dwellings, and capable of dealing with Sub-Contractors. Applicant must have initiative and be fully experienced, also able to drive a motor car. Permanent position offered to right man. Accommodation available if necessary.—Please write giving full particulars and salary required to Managing Director, R. M. SMITH, Ltd., Cossington, nr. Bridgwater.

SENIOR AGENTS SENIOR GENERAL FOREMEN

capable of organizing contracts of £250,000 to £1,000,000.

REMUNERATION UP TO £1,800 P.A.

Write in confidence, stating age, experience and qualifications, etc., to
Box 310 "The Builder"

Site Agents

and

General Foremen

Sir Lindsay Parkinson & Co. Ltd., invite applications for the above positions. Applicants who must be fully experienced in carrying out major building contracts of all types should forward all details to:

Building Director
Sir Lindsay Parkinson & Co. Ltd.,
6, Lambeth Road,
London, S.E.1.

SENIOR SITE AGENTS AND GENERAL FOREMEN

required for large housing developments in South East Essex. Applications are invited for these positions from men with proven ability in pre-planning, works study and labour control. The appointments are progressive and a Superannuation Scheme is available. Write in confidence stating age, experience, qualifications and salary required to

Box No. 470, "The Builder"

MISCELLANEOUS

STOCK-KEEPER for Builders' Merchants in their Plumbers' Brassfoundry section. Good knowledge of plumbing materials, accuracy and some experience of stock-keeping essential.—'Phone or write A. GOSLETT & CO., Ltd., 127-131 Charing Cross-road, London, W.C.2. Telephone: GER 7890.

FOREMEN AND SUPERVISORS

REINFORCED Concrete. **SUPERVISOR** Required by leading firm of specialists to organise and control contracts. Must be thoroughly experienced in in situ and pre-cast frame structures, preferably carpenter and joiner by trade. Excellent salary, bonus scheme, pension with good prospects in expanding organisation.—Write giving details of experience, age, etc., to Box 240, "The Builder."

FIRST-CLASS FOREMEN Required by expanding firm of reinforced concrete contractors. Thoroughly experienced in in situ and/or pre-cast frame construction. Excellent prospects for management posts. Top rate, bonus scheme, etc.—Write details of age, experience, to Box 241, "The Builder."

GENERAL FOREMAN Required for contracts of £40,000-£50,000 in north and central London, starting at beginning of August. Must be experienced in reinforced concrete framed buildings and possess drive and all round ability. Good salary, prospects and bonuses offered.—Apply in writing stating age and experience, COURTNEY & FAIRBAIRN, Ltd., 377 Albany-road, Camberwell, S.E.5.

GENERAL FOREMAN, fully experienced and cost conscious, Required for work in and around the London area. State age, experience and salary.—'Phone or write, W. R. OLDHAM Ltd., 471 Southend-lane, Lower Sydenham, S.E.26.

GENERAL FOREMAN Required for expansion programme in the West Country. Experienced in all aspects of building. Good prospects for top-class men.—Reply giving full particulars, to W. E. CHALKE & CO., Ltd., Croft House, Langford-road, Weston-super-Mare.

JOINERY CONTRACTOR Requires SITE FOREMAN for fixing high-class work. Exceptional opportunity for competent skilled craftsman having pride in workmanship. Pension scheme.—Write, details of age, experience and salary required, Box 293, "The Builder."

MANUFACTURERS of high-class joinery Require SITE SUPERVISORS all areas. Only those capable of producing excellent site work economically need apply for opening with scope for advancement. Pension scheme.—Send full details of experience, age and salary expected, Box 292, "The Builder."

GENERAL FOREMAN for a large College extension. In the first instance give full details in writing of past experience and when free to start.—McKEAND SMITH & CO., Ltd., Church-lane, Wolverhampton.

GENERAL FOREMAN Required for small flat contract, Crayford, Kent.—Apply, RICHARDSON, Herbert House, Slade Green, Erith, Kent.

GENERAL FOREMAN Required for 100-house private housing estate North of St. Albans, with experience in this type of work.—Apply in writing, stating age, experience and when available, to Box 386, "The Builder."

GENERAL FOREMAN Required for £200,000 Housing Contract in Hertfordshire.—Write stating experience, age and salary required to Box 384, "The Builder."

BUILDING SUPERVISOR Required to take charge of general maintenance of School buildings, including supervision of small works department and of contractors' work. Applicants should have been craftsmen in appropriate trade and have had experience as general foreman or clerk of works on building contracts. Some knowledge of heating and other engineering installations an advantage. Initial salary £800-£1,000 (non-resident) according experience and qualifications. Superannuation scheme. Applications in writing with full details of age, experience and qualifications and the names of two referees, should be sent to the Secretary and Finance Officer, LONDON SCHOOL OF HYGIENE AND TROPICAL MEDICINE, Keppel-street, W.C.1, as soon as possible.

GENERAL FOREMEN Required, fully experienced all trades, able to set out and use dumpy level. Permanent if suitable. Salary by agreement, bonus prospects.—Apply, in writing, giving details of experience and age to POOLMAN (BUILDERS), Ltd., Sutherland House, Edgware-road, N.W.9.

GENERAL FOREMAN Required by progressive company in Bournemouth area. Knowledge of reinforced concrete essential. Experienced in running contracts to £100,000. Progressive salary and bonus. Non-contributory pension scheme in operation.—Write, full particulars, Box 392, "The Builder."

GENERAL FOREMEN Required. Varied Contracts West Kent. Top salary for right men with experience and initiative.—Apply, R. DURTNELL & SONS, Ltd., Brasted, Nr. Westerham, Kent. Telephone Brasted 405.

YOUNG fully trained **BUILDING TRADESMAN/SUPERVISOR**, with administrative experience, Required by small expanding building company in Eastern Counties. Every encouragement will be given to person with the right background.—Full particulars to Box 422, "The Builder."

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GENERAL FOREMAN

Required

Excellent opportunity for ambitious man who has controlled contracts from £50,000 upwards and is conversant with modern methods. Excellent opportunity for promotion. Non-contributory pension scheme.

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£1,250 P.A.

Senior General Foreman required by Progressive National Builder. Must be prepared to work anywhere in the British Isles.

Write, giving your age and full experience over the last 10 years, stating salary required, to:

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for high class housing estate. Must be thoroughly competent to set out and supervise construction of estate roads and sewers and domestic dwellings and be capable of dealing with sub-contractors. Permanent pensionable position offered after probationary period. High salary and bonus for right results.

Write stating age, full details of experience and salary etc. to—

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Top grade General Foremen required for several interesting Contracts varying from £50,000—£250,000 only men with first class experience and references need apply to:—

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C. Miskin & Sons Ltd.,
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have vacancies for

GENERAL FOREMEN

in the Nottingham area. Applicants must be capable of organising medium to large contracts. Salary range: £900-£1100 per annum. Write in confidence, stating age, experience, qualifications, etc., to:

The Northern Area Manager,
H. FAIRWEATHER & CO. LTD.,
Hyde Works, Barlow Road, Broadheath,
Altrincham, Cheshire.

WALKING FOREMAN Required to supervise varied jobs in London. Carpenter and Joiner basic trade preferred.—Please write, or telephone, Secretary, KILLBY & GAYFORD, Ltd., 87 Worship-street, E.C.2. (Bishopsgate 3356/60.)

PLASTERING SUPERVISOR Required.—Please write stating age, experience and salary. Car provided.—T. F. ROONEY & SONS Ltd., 61/65 Stafford-road, Wallington, Surrey.

GENERAL FOREMAN for Building Contract in South London area. Must have experience in control of Contracts value £100,000. Long term prospects and good salary for suitable man.—Write stating details of contracts and previous employers since 1950 to T. R. ROBERTS (BUILDERS), Ltd., 2 Devonshire-road, Forest Hill, S.E.23.

SITE FOREMEN Required. Applicants must be fully experienced in reinforced concrete structures and hollow tiled floors. Progressive, permanent, pensionable appointment for suitable applicants. Only men able to take complete control on site, having held similar positions, should apply. Starting salary £1,000 per annum plus bonus and travelling allowance.—Apply in writing to The Works Director, PHILLIPS STRUCTURES Ltd., Western House, Western-avenue, Ealing, W.5.

GENERAL FOREMEN CIVIL ENGINEERING Required for reinforced concrete contracts covering bridges, sewage works, bunkers, etc., in various parts of the U.K. Previous experience as General Foreman essential. Generous salary, permanent staff appointments, pension scheme.—Applications giving age, previous experience and present position, in confidence, to Contract Labour Department, SIMON-CARVES Ltd., Cheadle Heath, Stockport, Cheshire, quoting Reference SC.80.

WORKING FOREMAN/SUPERVISOR wanted by Kensington Contractor to deal with growing number of interesting groundworks contracts over large area of England. Must be prepared to spend most of working life away from base. Salary up to £800 p.a. plus subsistence. Transport provided. —Write giving full details and salary required to Box 478, "The Builder."

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ENFIELD, MIDDLESEX

Invite applications from General Foremen of experience and integrity for contracts in the London Area.

Telephone or write:
Mr. WESTWOOD. (Enfield 8322)

GENERAL FOREMEN

As a firm we are aware of the increasing responsibilities of, and demands upon, a General Foreman in his work.

To meet today's exacting requirement, a foreman must really be a "FIRST MAN."

We are a family firm seeking "FIRST MEN" and we are prepared to reward accordingly those who can match today's opportunities.

Write, Box 473, "The Builder."

JOINERY SHOP FOREMAN required. General control of modern shop in Margate, Kent. Standard and purpose made joinery, buying etc. Please state age, experience and an indication of salary.
Box No. 368, "The Builder"

GENERAL FOREMAN, good organiser, cost conscious. Required for conversion and modernisation contract S.W.1. Bonus scheme.—Write, stating age, experience and salary required, Box 465, "The Builder."

WORKING GENERAL FOREMAN Required. Shops and maisonettes, Finchley area.—Box 459, "The Builder."

SUPERVISOR for Small Contracts and Jobbing in old-established but progressive country Builders (Hampshire).—Apply giving full details of experience, age and salary required, to Box 488, "The Builder."

GENERAL FOREMAN Required, Gosport. C. & J. preferred. Experience to include speculative housing, handling sub-contractors all trades, keeping site records, etc.—Please reply, stating experience and salary required, to Building Manager, PERCY BILTON, Ltd., 54/58 Uxbridge-road, Ealing, W.5.

FOREMAN Required for large London builders with good all-round experience. Work is in London area only. Possible permanency and participation in pension scheme.—Reply, stating age, experience and salary required, to Box 482, "The Builder."

FOREMAN Required for small alteration contracts. Excellent opportunity for young man with good prospects of advancement. Work is in the London area.—Reply, stating age, experience and salary required, to Box 483, "The Builder."

CARPENTERS AND JOINERS

SETTER-OUT wanted, Paddington area, accustomed to all types of joinery.—Write giving details of experience and wages required to Box 259, "The Builder."

JOINERS, used to Hardwood fittings and Bank Maintenance. Usual rates, will to work overtime. —Write, age, experience, to WM. NICHOLSON & SON (LEEDS), Ltd., 11 Well-court, Bow-lane, E.C.4.

FOREMAN/CARPENTER Required. Should be experienced in all types of work and able to work on own initiative. Bonus schemes in operation. Good prospects and permanency for right man.—Apply, A. T. CHOWN & CO., Ltd., 21-23 Chilworth-street, W.2.

SETTER-OUT, with experience of purpose-made Joinery. Required by old-established London firm specialising in this type of work. The position is permanent and progressive for applicant with initiative and ability.—Reply, with full details of previous experience, to Box 456, "The Builder."

CLERKS

BOUGHT/SALES LEDGER CLERK Required by Ford & Walton, Ltd. Employment will be at Stratford, E.15 until January, 1961, when the Company is moving to new headquarters being built at Wembley Park, Middlesex.—Applications, giving full particulars, to Personnel Manager, FORD & WALTON, Ltd., Walton House, Warton-road, E.15.

SURVEYORS' COST CLERK Required by Ford & Walton, Ltd. Employment will be at Stratford, E.15 until January, 1961, when the Company is moving to new headquarters being built at Wembley Park, Middlesex.—Applications, giving full particulars, to Personnel Manager, FORD & WALTON, Ltd., Walton House, Warton-road, E.15.

EXPERIENCED BOOKKEEPER Required, male or female. Wages, P.A.Y.E., knowledge of Kalamazoo system an advantage.—MARTIN & THORPE Ltd., 79 Sheen-road, Richmond, Surrey. RIC 5117.

TYPIST for City Chartered Quantity Surveyors' office. Initiative welcome. State experience, age and salary required.—Box 260, "The Builder."

TYPIST AND GENERAL OFFICE DUTIES for Quantity Surveyors, W.C.1.—Experience, age and salary required to Box 914, "The Builder."

BOOK-KEEPER/ACCOUNTANT Required by private company to take complete charge of and responsibility for the running of the financial side of builders' business. Knowledge of building trade and/or Costing considered an asset. Directorship for right man after probationary period. Small modernised house available, if required, in a nearby town. Salary subject to negotiation.—Apply, CRITCHLEY & CO., Chartered Accountants, 12 Stert-street, Abingdon, Berks.

COST AND ACCOUNTS CLERK Required for interesting work in Flooring Contractor's offices, South-East London. Good prospects in progressive company. Non-contributory pension scheme in operation.—Apply, giving details of age, experience and salary required, to Box 199, "The Builder."

COST CLERK Required by Shipfitting Contractors, to final accounts stage.—Apply, by letter or 'phone, to C. I. L., 139-149 Fonthill-road, London, N.4. ARChway 0606, Mr. S. Morris.

COST & ACCOUNTS CLERK, with experience in Costing Department of Contractors' offices, but able to operate new system being installed now. Staff pension scheme, pleasant office accommodation. This year's holiday arrangements considered.—Give details of career and salary required, to Secretary, COMBEN & WAKELING, Ltd., Kingsbury House, Kingsbury Circle, London, N.W.9.

TAYLOR WOODROW CONSTRUCTION LIMITED

require an

ASSISTANT COST ACCOUNTANT

for process costing system. Pension Scheme. Excellent opportunity.

Write giving full details of past experience and present employment, which will be treated in strict confidence, to:

Personnel Manager,
Ruislip Road,
Southall Middlesex.

BUILDERS' CLERK in City Office, for general duties and records.—Write, age, salary required, to WM. NICHOLSON & SON (LEEDS), Ltd., 11 Well-court, Bow-lane, E.C.4.

TYPIST & TELEPHONIST in City office.—Write, age, salary required, to WM. NICHOLSON & SON (LEEDS), Ltd., 11 Well-court, Bow-lane, E.C.4.

ASSISTANT PRIME COST CLERK for Builders office. Must have thorough knowledge of the building trade and calculations. Only those with previous experience need apply.—Write, in first instance, giving full details of experience and salary required, to DAVIES CONSTRUCTION COMPANY (KENT) Ltd., 238 Lowfield-street, Dartford.

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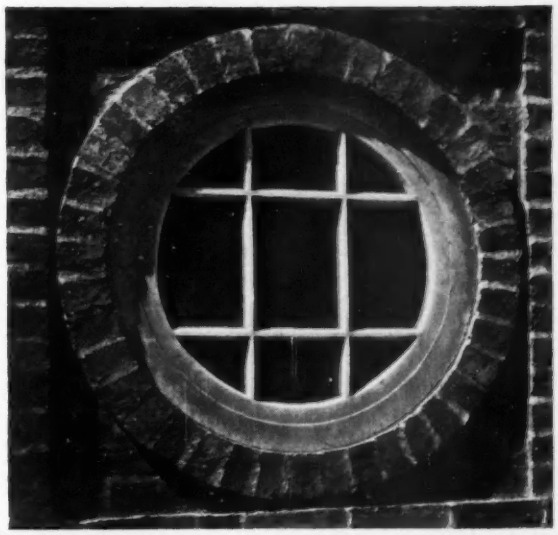

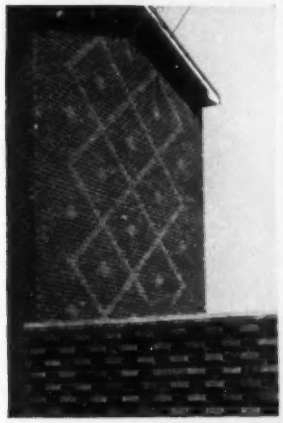

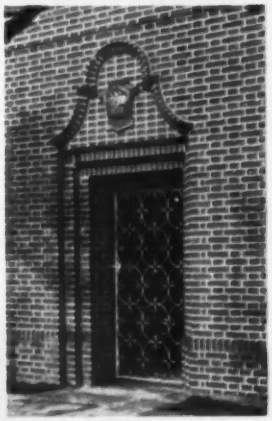

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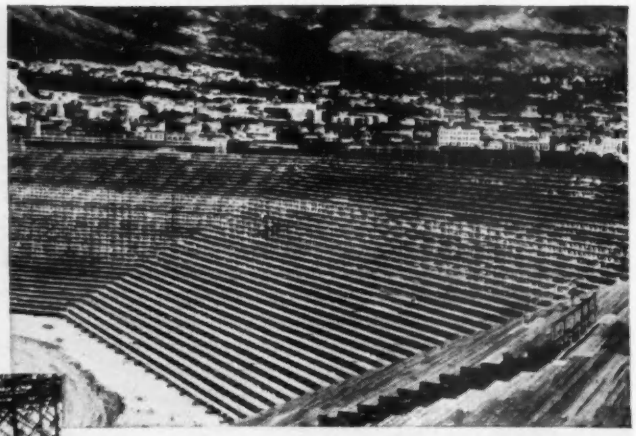

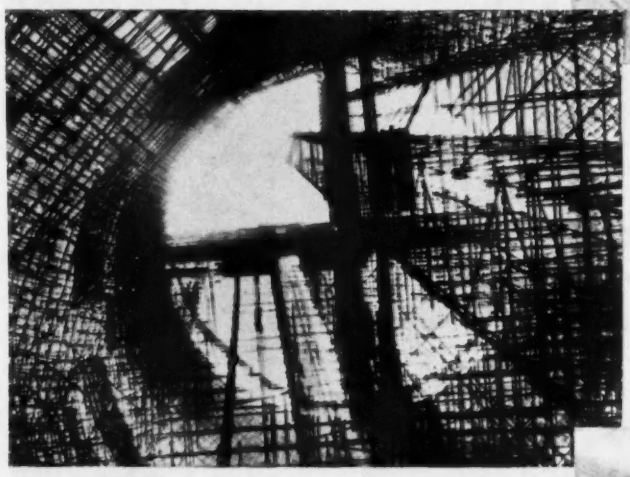

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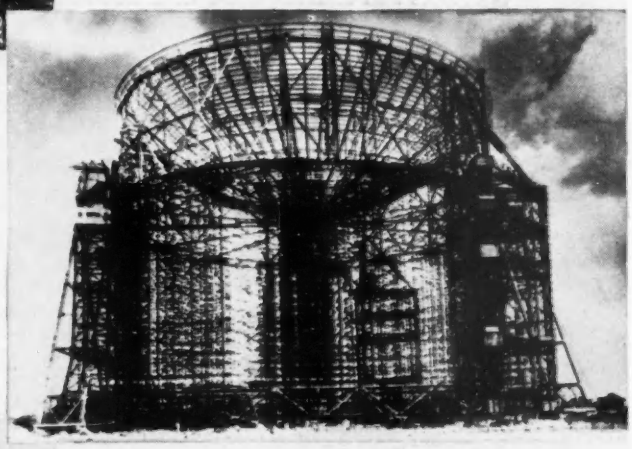
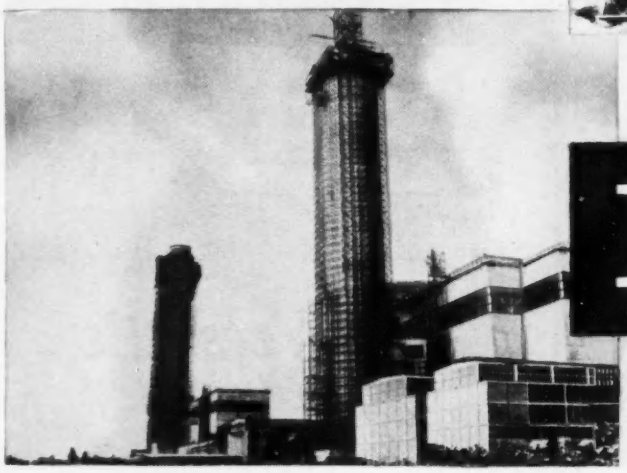


you can get from



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